

=> fil reg

FILE 'REGISTRY' ENTERED AT 14:05:47 ON 11 SEP 2008  
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STRUCTURE FILE UPDATES: 10 SEP 2008 HIGHEST RN 1048424-48-1  
DICTIONARY FILE UPDATES: 10 SEP 2008 HIGHEST RN 1048424-48-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

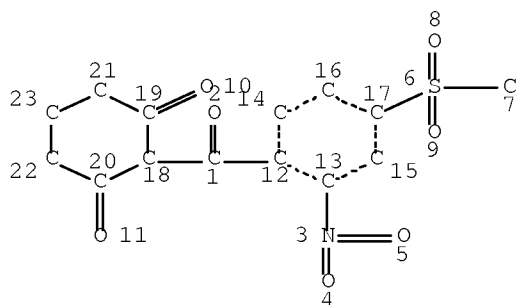
Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and  
predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

=> d que stat l2

L1 STR



NODE ATTRIBUTES:  
DEFAULT MLEVEL IS ATOM  
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 23

STEREO ATTRIBUTES: NONE  
L2 165 SEA FILE=REGISTRY FAM FUL L1

100.0% PROCESSED 197 ITERATIONS  
SEARCH TIME: 00.00.01

165 ANSWERS

=> d his nofile l3-

(FILE 'REGISTRY' ENTERED AT 13:59:44 ON 11 SEP 2008)

-----  
ACT PHOS/A  
-----

L3 ( 6)SEA ABB=ON PLU=ON (PHOSPHATE/CN OR "PHOSPHATE (32PO4)"/CN OR  
"PHOSPHATE (H2PO4-)/CN OR "PHOSPHATE (H2PO41-)/CN OR  
"PHOSPHATE (HPO42-)/CN OR "PHOSPHATE (P2O74-)/CN OR "PHOSPHAT  
E (P4O123-)/CN)  
L4 ( 2)SEA ABB=ON PLU=ON (PHOSPHONATE/CN OR "PHOSPHONATE (H2PO31-)/  
CN OR "PHOSPHONATE (HPO32-)/CN)  
L5 ( 1)SEA ABB=ON PLU=ON (PHOSPHINATE/CN OR "PHOSPHINATE (H2PO21-)/  
CN)  
L6 9 SEA ABB=ON PLU=ON (L3 OR L4 OR L5)  
-----  
E PHOSPHORIC ACID/CN  
L7 1 SEA ABB=ON PLU=ON "PHOSPHORIC ACID"/CN  
D SCAN

FILE 'CAPLUS' ENTERED AT 14:00:26 ON 11 SEP 2008

L8 333 SEA ABB=ON PLU=ON L2  
L9 125003 SEA ABB=ON PLU=ON L6 OR L7  
L10 76200 SEA ABB=ON PLU=ON L7  
L11 77136 SEA ABB=ON PLU=ON HERBICIDE?/OBI  
L12 135 SEA ABB=ON PLU=ON L10 AND L11  
L13 24654 SEA ABB=ON PLU=ON ADJUVANT?/OBI  
L14 9 SEA ABB=ON PLU=ON L12 AND L13  
L15 3 SEA ABB=ON PLU=ON L8 AND L10

FILE 'REGISTRY' ENTERED AT 14:02:18 ON 11 SEP 2008

FILE 'CAPLUS' ENTERED AT 14:02:31 ON 11 SEP 2008

L\*\*\* DEL 3 S L8 AND L10  
D SCAN TI  
L16 4 SEA ABB=ON PLU=ON L9 AND L8  
D SCAN TI  
L17 246 SEA ABB=ON PLU=ON L11 AND L9  
L18 11 SEA ABB=ON PLU=ON L17 AND L13  
L19 13 SEA ABB=ON PLU=ON L14 OR L15 OR L16 OR L18  
L20 591961 SEA ABB=ON PLU=ON PHOSPHAT?/OBI  
L21 11 SEA ABB=ON PLU=ON L8 AND L20  
L22 22 SEA ABB=ON PLU=ON L21 OR L19  
L23 2 SEA ABB=ON PLU=ON L21 AND L13  
L24 11 SEA ABB=ON PLU=ON L23 OR L21  
L25 4 SEA ABB=ON PLU=ON L8 AND (L9 OR L10)  
L26 2 SEA ABB=ON PLU=ON L25 NOT L24  
D SCAN TI

=> fil reg

FILE 'REGISTRY' ENTERED AT 14:06:08 ON 11 SEP 2008

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STRUCTURE FILE UPDATES: 10 SEP 2008 HIGHEST RN 1048424-48-1  
DICTIONARY FILE UPDATES: 10 SEP 2008 HIGHEST RN 1048424-48-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

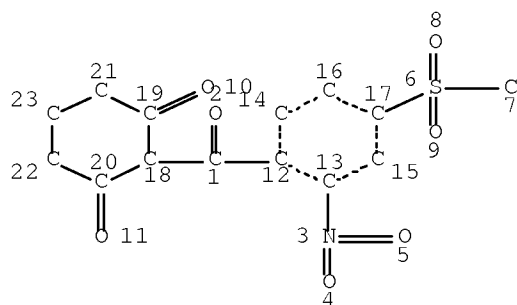
TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

=> d que stat l2  
L1 STR



NODE ATTRIBUTES:  
DEFAULT MLEVEL IS ATOM  
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 23

STEREO ATTRIBUTES: NONE  
L2 165 SEA FILE=REGISTRY FAM FUL L1

100.0% PROCESSED 197 ITERATIONS 165 ANSWERS  
SEARCH TIME: 00.00.01

=> d que l14  
L7 1 SEA FILE=REGISTRY ABB=ON PLU=ON "PHOSPHORIC ACID"/CN  
L10 76200 SEA FILE=CAPLUS ABB=ON PLU=ON L7  
L11 77136 SEA FILE=CAPLUS ABB=ON PLU=ON HERBICIDE?/OBI  
L12 135 SEA FILE=CAPLUS ABB=ON PLU=ON L10 AND L11  
L13 24654 SEA FILE=CAPLUS ABB=ON PLU=ON ADJUVANT?/OBI  
L14 9 SEA FILE=CAPLUS ABB=ON PLU=ON L12 AND L13

=> d rn cn 114

YOU HAVE REQUESTED DATA FROM FILE 'CAPLUS' - CONTINUE? (Y)/N:n

=> d que 16; d rn cn 16 1-9

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L3 (      6)SEA FILE=REGISTRY ABB=ON  PLU=ON  (PHOSPHATE/CN OR "PHOSPHATE
      (32PO4)"/CN OR "PHOSPHATE (H2PO4-)"/CN OR "PHOSPHATE (H2PO41-) "
      /CN OR "PHOSPHATE (HPO42-)"/CN OR "PHOSPHATE (P2O74-)"/CN OR
      "PHOSPHATE (P4O123-)"/CN)
L4 (      2)SEA FILE=REGISTRY ABB=ON  PLU=ON  (PHOSPHONATE/CN OR "PHOSPHONA
      TE (H2PO31-)"/CN OR "PHOSPHONATE (HPO32-)"/CN)
L5 (      1)SEA FILE=REGISTRY ABB=ON  PLU=ON  (PHOSPHINATE/CN OR "PHOSPHINA
      TE (H2PO21-)"/CN)
L6      9 SEA FILE=REGISTRY ABB=ON  PLU=ON  (L3 OR L4 OR L5)
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```
L6  ANSWER 1 OF 9  REGISTRY  COPYRIGHT 2008 ACS on STN
RN  55620-44-5  REGISTRY
CN  Phosphate (P4O123-) (9CI)  (CA INDEX NAME)
OTHER NAMES:
CN  Phosphate radical (P4O123-)
```

```
L6  ANSWER 2 OF 9  REGISTRY  COPYRIGHT 2008 ACS on STN
RN  18274-25-4  REGISTRY
CN  Phosphate-32P (8CI, 9CI)  (CA INDEX NAME)
OTHER NAMES:
CN  Phosphate (32PO4)
CN  [32P]Orthophosphate
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```
L6  ANSWER 3 OF 9  REGISTRY  COPYRIGHT 2008 ACS on STN
RN  15477-76-6  REGISTRY
CN  Phosphonic acid, ion(2-) (8CI, 9CI)  (CA INDEX NAME)
OTHER NAMES:
CN  Hydrogen phosphite (HPO32-)
CN  Monohydrogen phosphite
CN  Phosphite (HPO32-)
CN  Phosphonate
CN  Phosphonate (HPO32-)
CN  Phosphonate dianion
CN  Phosphonate(2-)
```

```
L6  ANSWER 4 OF 9  REGISTRY  COPYRIGHT 2008 ACS on STN
RN  15460-71-6  REGISTRY
CN  Phosphonic acid, ion(1-) (8CI, 9CI)  (CA INDEX NAME)
OTHER NAMES:
CN  Dihydrogen phosphite
CN  Phosphite ion (HPO31-)
CN  Phosphonate (H2PO31-)
CN  Phosphonate, hydrogen
```

```
L6  ANSWER 5 OF 9  REGISTRY  COPYRIGHT 2008 ACS on STN
RN  15460-68-1  REGISTRY
CN  Phosphinic acid, ion(1-) (9CI)  (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN  Phosphinate (8CI)
OTHER NAMES:
CN  Hypophosphite
CN  Hypophosphite ion (H2PO2-)
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CN Hypophosphite(1-)  
 CN Hypophosphite(1-) ion  
 CN Phosphinate (H<sub>2</sub>PO<sub>2</sub><sup>1-</sup>)

L6 ANSWER 6 OF 9 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 14265-44-2 REGISTRY  
 CN Phosphate (CA INDEX NAME)

OTHER NAMES:

CN Orthophosphate  
 CN Orthophosphate (PO<sub>4</sub><sup>3-</sup>)  
 CN Orthophosphate(3-)  
 CN Phosphate (PO<sub>4</sub><sup>3-</sup>)  
 CN Phosphate anion(3-)  
 CN Phosphate ion (PO<sub>4</sub><sup>3-</sup>)  
 CN Phosphate ion(3-)  
 CN Phosphate trianion  
 CN Phosphate(3-)  
 CN Phosphoric acid, ion(3-)

L6 ANSWER 7 OF 9 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 14066-20-7 REGISTRY  
 CN Phosphate, dihydrogen (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN Dihydrogen orthophosphate  
 CN Dihydrogen phosphate  
 CN Dihydrogen phosphate (H<sub>2</sub>PO<sub>4</sub><sup>1-</sup>)  
 CN Dihydrogen phosphate anion  
 CN Dihydrogen phosphate anion (H<sub>2</sub>PO<sub>4</sub><sup>-</sup>)  
 CN Dihydrogen phosphate ion  
 CN Dihydrogen phosphate ion (H<sub>2</sub>PO<sub>4</sub><sup>-</sup>)  
 CN Dihydrogen phosphate monoanion  
 CN Dihydrogen phosphate(1-)  
 CN Dihydrophosphate anion  
 CN Hydrogen phosphate ion (H<sub>2</sub>PO<sub>4</sub><sup>1-</sup>)  
 CN Phosphate (H<sub>2</sub>PO<sub>4</sub><sup>-</sup>)  
 CN Phosphate (H<sub>2</sub>PO<sub>4</sub><sup>1-</sup>)  
 CN Phosphate ion (H<sub>2</sub>PO<sub>4</sub><sup>1-</sup>)  
 CN Phosphate monoanion  
 CN Phosphoric acid ion (H<sub>2</sub>PO<sub>4</sub><sup>1-</sup>)  
 CN Phosphoric acid ion(1-)

L6 ANSWER 8 OF 9 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 14066-19-4 REGISTRY  
 CN Phosphate, hydrogen (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN Biphosphate  
 CN Hydrogen orthophosphate  
 CN Hydrogen phosphate  
 CN Hydrogen phosphate (HPO<sub>4</sub><sup>2-</sup>)  
 CN Hydrogen phosphate anion (HPO<sub>4</sub><sup>2-</sup>)  
 CN Hydrogen phosphate dianion  
 CN Hydrogen phosphate ion (HPO<sub>4</sub><sup>2-</sup>)  
 CN Hydrogen phosphate ion(2-)  
 CN Hydrogen phosphate(2-)  
 CN Monohydrogen phosphate  
 CN Monohydrogen phosphate (HPO<sub>4</sub><sup>2-</sup>)  
 CN Phosphate (HPO<sub>4</sub><sup>2-</sup>)  
 CN Phosphate (PO<sub>4</sub>H<sub>2</sub><sup>-</sup>)  
 CN Phosphate dianion  
 CN Phosphate dianion (HPO<sub>4</sub><sup>2-</sup>)

CN Phosphate ion (HPO42-)  
 CN Phosphate ion(2-)  
 CN Phosphate(2-)  
 CN Phosphoric acid ion(2-)

L6 ANSWER 9 OF 9 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 14000-31-8 REGISTRY  
 CN Diphosphate (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Pyrophosphate (8CI)  
 OTHER NAMES:  
 CN Diphosphate (P2O74-)  
 CN Diphosphate(4-)  
 CN Diphosphoric acid, ion(4-)  
 CN Phosphate (P2O74-)  
 CN Pyrometaphosphate  
 CN Pyrophosphate (P2O74-)  
 CN Pyrophosphate tetraanion  
 CN Pyrophosphate(4-)  
 CN Pyrophosphate(4-) ion

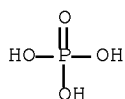
=> d que 17

L7 1 SEA FILE=REGISTRY ABB=ON PLU=ON "PHOSPHORIC ACID"/CN

=> d 17

L7 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 7664-38-2 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Phosphoric acid (CA INDEX NAME)  
 OTHER NAMES:  
 CN 3M Etching Liquid  
 CN Amberphos 54  
 CN C 134  
 CN C 134 (acid)  
 CN C 434  
 CN C 434 (acid)  
 CN Conditioner 36  
 CN Decon 4512  
 CN E 338  
 CN Etchalite  
 CN EVITs  
 CN HQ 54  
 CN K-etchant  
 CN Kefo  
 CN Kerr Etchant  
 CN Mikro Klene DF  
 CN NSC 80804  
 CN Orthophosphoric acid  
 CN Panavia Etching Agent  
 CN Sonac  
 CN SPA 2  
 CN SPA 2 (catalyst)  
 CN TG 434  
 CN Total Etch  
 CN Ultra-Etch Gel  
 CN Ultraetch

CN Uni-Etch  
CN WC-Reiniger  
CN Y 11A06  
DR 959699-83-3, 1021417-41-3, 28602-75-7, 178560-73-1  
MF H3 O4 P  
CI COM  
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BIOSIS, BIOTECHNO, CA, CABA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM\*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN\*, HSDB\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK\*, MSDS-OHS, NAPRALERT, PIRA, PROMT, RTECS\*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VETU  
(\*File contains numerically searchable property data)  
Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
(\*\*Enter CHEMLIST File for up-to-date regulatory information)



Structure in formula II

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

75962 REFERENCES IN FILE CA (1907 TO DATE)  
10093 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
76200 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> fil caplus  
FILE 'CAPLUS' ENTERED AT 14:07:05 ON 11 SEP 2008  
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FILE COVERS 1907 - 11 Sep 2008 VOL 149 ISS 11  
FILE LAST UPDATED: 10 Sep 2008 (20080910/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/legal/infopolicy.html>

'OBI' IS DEFAULT SEARCH FIELD FOR 'CAPLUS' FILE

=> d que nos 124

```
L1          STR
L2          165 SEA FILE=REGISTRY FAM FUL L1
L8          333 SEA FILE=CAPLUS ABB=ON  PLU=ON  L2
L13         24654 SEA FILE=CAPLUS ABB=ON  PLU=ON  ADJUVANT?/OBI
L20         591961 SEA FILE=CAPLUS ABB=ON  PLU=ON  PHOSPHAT?/OBI
L21         11 SEA FILE=CAPLUS ABB=ON  PLU=ON  L8 AND L20
L23         2 SEA FILE=CAPLUS ABB=ON  PLU=ON  L21 AND L13
L24         11 SEA FILE=CAPLUS ABB=ON  PLU=ON  L23 OR L21
```

> => d que nos 126

```
L1          STR
L2          165 SEA FILE=REGISTRY FAM FUL L1
L3 (        6)SEA FILE=REGISTRY ABB=ON  PLU=ON  (PHOSPHATE/CN OR "PHOSPHATE
              (32PO4)"/CN OR "PHOSPHATE (H2PO4-)/CN OR "PHOSPHATE (H2PO41-)"
              /CN OR "PHOSPHATE (HPO42-)/CN OR "PHOSPHATE (P2O74-)/CN OR
              "PHOSPHATE (P4O123-)/CN)
L4 (        2)SEA FILE=REGISTRY ABB=ON  PLU=ON  (PHOSPHONATE/CN OR "PHOSPHONA
              TE (H2PO31-)/CN OR "PHOSPHONATE (HPO32-)/CN)
L5 (        1)SEA FILE=REGISTRY ABB=ON  PLU=ON  (PHOSPHINATE/CN OR "PHOSPHINA
              TE (H2PO21-)/CN)
L6          9 SEA FILE=REGISTRY ABB=ON  PLU=ON  (L3 OR L4 OR L5)
L7          1 SEA FILE=REGISTRY ABB=ON  PLU=ON  "PHOSPHORIC ACID"/CN
L8          333 SEA FILE=CAPLUS ABB=ON  PLU=ON  L2
L9          125003 SEA FILE=CAPLUS ABB=ON  PLU=ON  L6 OR L7
L10         76200 SEA FILE=CAPLUS ABB=ON  PLU=ON  L7
L13         24654 SEA FILE=CAPLUS ABB=ON  PLU=ON  ADJUVANT?/OBI
L20         591961 SEA FILE=CAPLUS ABB=ON  PLU=ON  PHOSPHAT?/OBI
L21         11 SEA FILE=CAPLUS ABB=ON  PLU=ON  L8 AND L20
L23         2 SEA FILE=CAPLUS ABB=ON  PLU=ON  L21 AND L13
L24         11 SEA FILE=CAPLUS ABB=ON  PLU=ON  L23 OR L21
L25         4 SEA FILE=CAPLUS ABB=ON  PLU=ON  L8 AND (L9 OR L10)
L26         2 SEA FILE=CAPLUS ABB=ON  PLU=ON  L25 NOT L24
```

=> d .ca hitstr 124 1-11

```
L24  ANSWER 1 OF 11  CAPLUS  COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER:    2008:944044  CAPLUS  Full-text
DOCUMENT NUMBER:     149:247891
TITLE:               Method for preparing particles comprising metal oxide
                      coating and particles with metal oxide coating
INVENTOR(S):         Toledano, Ofer; Bar-Simantov, Haim; Bilman, Nissim;
                      Shapiro, Leora; Abu-Reziq, Raed; Sriadibhatla,
                      Srikanth; Sommer, William T.
PATENT ASSIGNEE(S):  Sol-Gel Technologies Ltd., Israel
SOURCE:              PCT Int. Appl., 51pp.
                      CODEN: PIXXD2
DOCUMENT TYPE:        Patent
LANGUAGE:             English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
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PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2008093347	A2	20080807	WO 2008-IL141	20080203
W:	AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			

PRIORITY APPLN. INFO.:

US 2007-898700P

P 20070201

ED Entered STN: 08 Aug 2008

AB The invention relates to a process for coating a solid, water-insol. particulate matter, with a metal oxide comprising: (a) contacting the solid, water-insol. particulate matter with an ionic additive and an aqueous medium to obtain a dispersion of said particulate matter having pos. charges on its surface; (b) subjecting the particulate matter to a coating procedure comprising precipitating a metal oxide salt onto the surface of the particulate matter to form a metal oxide layer thereon to thereby obtain particulate matter coated by a metal oxide coating layer; (c) repeating step (b) at least 4 more times; and (d) aging said coating layer. The invention further relates to particles comprising a particulate matter coated by a metal oxide layer, to a use of the particles for topical administration, and to a method for preventing, reducing, or eliminating pests at a locus, using the particles.

IC ICM C03B

CC 42-2 (Coatings, Inks, and Related Products)

Section cross-reference(s): 38, 46, 62, 63

IT Phosphates, uses

RL: TEM (Technical or engineered material use); USES (Uses)

(esters; method for preparing particles comprising metal oxide coating and particles with metal oxide coating)

IT 115-29-7, Endosulfan 116-06-3, Aldicarb 122-34-9, Simazine 137-30-4, Ziram 330-55-2, Linuron 709-98-8, Propanil 834-12-8, Ametryn 1332-40-7, Copper-oxychloride 1563-66-2, Carbofuran 1582-09-8, Trifluralin 1897-45-6, Chlorothalonil 1912-24-9, Atrazine 2921-88-2, Chlorpyrifos 7287-19-6, Prometryn 7704-34-9, Sulphur, biological studies 8018-01-7, Mancozeb 10605-21-7, Carbendazim 12427-38-2, Maneb 19937-59-8, Metoxuron 21087-64-9, Metribuzin 22224-92-6, Fenamiphos 23103-98-2, Pirimicarb 23564-05-8, Thiophanate-methyl 25057-89-0, Bentazone 26225-79-6, Ethofumesate 34014-18-1, Tebuthiuron 34123-59-6, Isoproturon 40487-42-1, Pendimethalin 41394-05-2, Metamitron 42874-03-3, Oxyfluorfen 51707-55-2, Thidiazuron 52315-07-8, Cypermethrin 52918-63-5, Deltamethrin 55283-68-6, Ethalfluralin 55335-06-3, Triclopyr 57966-95-7, Cymoxanil 66063-05-6, Pencycuron 66230-04-4, Esfenvalerate 66332-96-5, Flutolanil 67129-08-2, Metazachlor 67375-30-8, Alphacypermethrin 68359-37-5, Betacyfluthrin 71422-67-8, Chlorfluazuron 71751-41-2, Abamectin 72178-02-0, Fomesafen 74070-46-5, Aclonifen 74222-97-2, Sulfometuron-methyl 74223-64-6, Metsulfuron-methyl 76578-14-8, Quizalofop-ethyl 76674-21-0, Flutriafol 77501-63-4, Lactofen 79277-27-3, Thifensulfuron-methyl 79622-59-6, Fluazinam 81334-34-1, Imazapyr 81335-37-7, Imazaquin 81335-77-5, Imazethapyr 82097-50-5, Triasulfuron 82657-04-3, Bifenthrin 83121-18-0, Teflubenzuron

Sabiha Qazi 11/000,700

84087-01-4, Quinclorac 85509-19-9, Flusilazole 87820-88-0, Tralkoxydim  
 90717-03-6, Quinmerac 90982-32-4, Chlorimuron-ethyl 94361-06-5,  
 Cyproconazole 98967-40-9, Flumetsulam 99105-77-8, Sulcotrione  
 100646-51-3 100784-20-1, Halosulfuron-methyl 103055-07-8, Lufenuron  
 104098-48-8, Imazapic 104206-82-8, Mesotrione 107534-96-3,  
 Tebuconazole 110488-70-5, Dimethomorph 111988-49-9, Thiacloprid  
 114311-32-9, Imazamox 116714-46-6, Novaluron 120068-37-3, Fipronil  
 120116-88-3, Cyazofamid 122008-85-9, Cyhalofop-butyl 122453-73-0,  
 Chlorfenapyr 122836-35-5, Sulfentrazone 122931-48-0, Rimsulfuron  
 129909-90-6, Amicarbazone 131860-33-8, Azoxystrobin 133855-98-8,  
 Epoxiconazole 135410-20-7, Acetamiprid 138261-41-3, Imidacloprid  
 141112-29-0, Isoxaflutole 141517-21-7, Trifloxystrobin 141776-32-1,  
 Sulfosulfuron 142459-58-3, Flufenacet 143390-89-0, Kresoxim-methyl  
 145701-23-1, Florasulam 153719-23-4, Thiamethoxam 161050-58-4,  
 Methoxyfenozide 168316-95-8, Spinosad 173584-44-6, Indoxacarb  
 175013-18-0, Pyraclostrobin

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)

(pesticide; method for preparing particles comprising metal oxide coating  
 and particles with metal oxide coating)

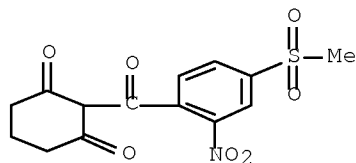
IT 104206-82-8, Mesotrione

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)

(pesticide; method for preparing particles comprising metal oxide coating  
 and particles with metal oxide coating)

RN 104206-82-8 CAPLUS

CN 1,3-Cyclohexanedione, 2-[4-(methylsulfonyl)-2-nitrobenzoyl]- (CA INDEX  
 NAME)



L24 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2008:770596 CAPLUS Full-text

DOCUMENT NUMBER: 149:71930

TITLE: Pesticidal aggregates comprising a polymer and an  
 amphiphilic surfactant

INVENTOR(S): Kabanov, Alexander V.; Karas, Michael; Bronitch,  
 Tatiana K.; Dexter, Robin

PATENT ASSIGNEE(S): Innovaform Technologies, LLC, USA

SOURCE: PCT Int. Appl., 75pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2008076807	A2	20080626	WO 2007-US87398	20071213
WO 2008076807	A3	20080807		

Sabiha Qazi 11/000,700

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GU, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW  
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA

PRIORITY APPLN. INFO.: US 2006-874465P P 20061213

ED Entered STN: 26 Jun 2008

AB This invention relates to a water-insol. pesticidal aggregate produced from a mixture comprising: (a) a polymer having at least three similarly charged electrostatic moieties; (b) an amphiphilic surfactant having at least one electrostatically charged moiety of opposite charge to the polymer; and (c) a pesticide.

CC 5-4 (Agrochemical Bioregulators)

IT 77-06-5, Gibberellic acid 85-00-7, Diquat 94-75-7, 2,4-D, biological studies 1071-83-6, Glyphosate 1689-84-5, Bromoxynil 1702-17-6, Clopyralid 1897-45-6, Chlorothalonil 1912-24-9, Atrazine 1918-00-9, Dicamba 4685-14-7, Paraquat 15972-60-8, Alachlor 19044-88-3, Oryzalin 23135-22-0, Oxamyl 34256-82-1, Acetochlor 40487-42-1, Pendimethalin. 51218-45-2, Metolachlor 51276-47-2, Glufosinate 72178-02-0, Fomesafen 76674-21-0, Flutriafol 81335-77-5, Imazethapyr 82657-04-3, Bifenthrin 94051-08-8, Quizalof op-P 103055-07-8, Lufenuron 104206-82-8, Mesotrione 107534-96-3, Tebuconazole 111991-09-4, Nicosulfuron 116714-46-6, Novaluron 122836-35-5, Sulfentrazone 126833-17-8, Fenhexamid 131860-33-8, Azoxystrobin 147150-35-4, Cloransulam-methyl

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(pesticidal aggregates containing)

IT 57-09-0, Hexadecyltrimethylammonium bromide 88-12-0D, copolymers 107-25-5D, Methyl vinyl ether, copolymers with maleic anhydride esters 108-31-6D, Maleic anhydride, polymer with olefins 112-00-5, Arquad 12-37W 112-02-7, Arquad 16-50 112-03-8, Arquad 18-50 151-21-3, Sodium dodecyl sulfate, uses 506-59-2D, Dimethylammonium chloride, cocoalkyl derivative 593-81-7D, Trimethylammonium chloride, cocoalkyl derivative

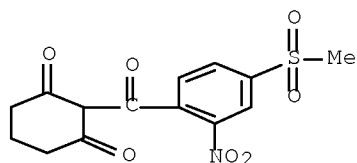
1119-97-7, Tetradecyltrimethylammonium bromide 6484-52-2D, Ammonium nitrate, cocoalkyl derivative, ethoxylated 8061-51-6, REAX 88B 9003-01-4, Polyacrylic acid 12125-02-9D, Ammonium chloride, cocoalkyl derivative, ethoxylated 14806-72-5D, tallowalkyl derivative 18254-13-2D, Tristyrylphenol, phosphate ester 25085-34-1, Styrene-acrylic acid polymer 25085-35-2, Carbopol aqua 30 25155-30-0, Sodium dodecyl benzene sulfonate 26062-79-3 26590-05-6, Polyquaternium 7 28880-55-9, Ethoquad O/12 PG 30581-59-0D, quaternized 34229-21-5, Geropon EGPM 50851-57-5D, Polystyrenesulfonic acid, polymer 53633-54-8, Polyquaternium 11 139776-68-4 288306-26-3 476312-12-6, Carbopol 71G 887137-42-0, Ethacryl G 1033619-66-7D, tallowalkyl derivative, hydrogenated 1033727-61-5, Atlox Metasperse 550S 1033745-28-6, Ethacryl M 1033745-32-2, Ethacryl P 1033745-35-5, Ethacryl HF 1033746-68-7, Akzo PPEM 9376

RL: MOA (Modifier or additive use); USES (Uses)  
(pesticidal aggregates containing)

IT 104206-82-8, Mesotrione

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(pesticidal aggregates containing)

RN 104206-82-8 CAPLUS  
 CN 1,3-Cyclohexanedione, 2-[4-(methylsulfonyl)-2-nitrobenzoyl]- (CA INDEX NAME)



L24 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2008:529932 CAPLUS Full-text  
 DOCUMENT NUMBER: 148:511107  
 TITLE: Cropping systems using transgenic plants and herbicide treatments for managing weeds  
 INVENTOR(S): Arnevik, Cindy L.; Brinker, Ronald J.; Elmore, Greg; Graham, James C.; Sammons, Robert D.; Starke, Michelle; Voth, Richard D.  
 PATENT ASSIGNEE(S): Monsanto Technology LLC, USA  
 SOURCE: PCT Int. Appl., 86pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008051633	A2	20080502	WO 2007-US70510	20070606
WO 2008051633	A3	20080807		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA				

PRIORITY APPLN. INFO.: US 2006-862907P P 20061025  
 US 2007-758660 A 20070605

ED Entered STN: 02 May 2008

AB Cropping systems for managing weeds comprise, in one embodiment, sowing transgenic plants that display tolerance to an auxin-like herbicide such as dicamba and applying at least a first herbicide treatment to the growing environment to control weed growth. The system may further comprise applying ≥2-5 of said herbicide treatments. Methods for minimizing the development of herbicide-resistant weeds are also provided.

CC 5-3 (Agrochemical Bioregulators)  
 Section cross-reference(s): 3, 7

IT 104206-82-8, Mesotrione

RL: AGR (Agricultural use); PRPH (Prophetic); BIOL (Biological study);  
USES (Uses)

(Callisto; cropping systems using transgenic plants and herbicide  
treatments for weed control and methods for minimizing  
herbicide-resistant weed development)

IT 9029-72-5 9068-73-9, 5-Enolpyruvylshikimate-3-phosphate  
synthase 111069-93-3, Phosphinothricin acetyltransferase 143375-68-2,  
Glyphosate oxidoreductase 189326-41-8, Dicamba monooxygenase  
424789-79-7, Glyphosate-N-acetyl transferase

RL: BSU (Biological study, unclassified); BIOL (Biological study)  
(cropping systems using transgenic plants and herbicide treatments for  
weed control and methods for minimizing herbicide-resistant weed  
development)

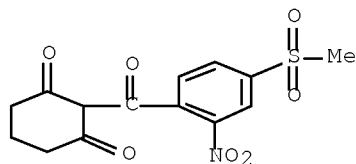
IT 104206-82-8, Mesotrione

RL: AGR (Agricultural use); PRPH (Prophetic); BIOL (Biological study);  
USES (Uses)

(Callisto; cropping systems using transgenic plants and herbicide  
treatments for weed control and methods for minimizing  
herbicide-resistant weed development)

RN 104206-82-8 CAPLUS

CN 1,3-Cyclohexanedione, 2-[4-(methylsulfonyl)-2-nitrobenzoyl]- (CA INDEX  
NAME)



L24 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:283286 CAPLUS [Full-text](#)

DOCUMENT NUMBER: 146:310978

TITLE: Microemulsion formulation for agrochemicals and  
pharmaceuticals

INVENTOR(S): Rowley, Keith; Trimmer, Mark; Richard, Thomas; Leung,  
Claire

PATENT ASSIGNEE(S): Nutra-Park, Inc., USA

SOURCE: PCT Int. Appl., 51pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

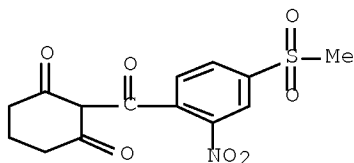
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007030649	A2	20070315	WO 2006-US34907	20060907
WO 2007030649	A3	20070816		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ,				

Sabiha Qazi 11/000,700

UA, UG, US, UZ, VC, VN, ZA, ZM, ZW  
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,  
 IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,  
 CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,  
 GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,  
 KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA  
 US 20070078057 A1 20070405 US 2006-517004 20060907  
 PRIORITY APPLN. INFO.: US 2005-714597P P 20050907  
 US 2005-714598P P 20050907  
 ED Entered STN: 16 Mar 2007  
 AB The invention provides a storage-stable microemulsion formulation comprising a  
 metal chelate complex, an anionic surfactant, unmodified or modified lecithin,  
 and, optionally, an alc. The microemulsion is suitable for agrochemicals and  
 pharmaceuticals.  
 CC 5-6 (Agrochemical Bioregulators)  
 Section cross-reference(s): 63  
 IT 108-88-3, Toluene, biological studies 1071-83-6, Glyphosate 1330-20-7,  
 Xylene, biological studies 104206-82-8, Mesotrione  
 117428-22-5, Picoxystrobin 120068-37-3, Fipronil 131860-33-8,  
 Azoxystrobin 138261-41-3, Imidacloprid 141517-21-7, Trifloxystrobin  
 143390-89-0, Kresoxim-methyl 500008-45-7, Rynaxypyr  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (microemulsion formulation for agrochemicals and pharmaceuticals)  
 IT 60-00-4, EDTA, uses 64-02-8, EDTA tetrasodium 64-17-5, Ethanol, uses  
 67-43-6, DTPA 67-56-1, Methanol, uses 67-63-0, 2-Propanol, uses  
 71-23-8, Propanol, uses 71-36-3, Butanol, uses 75-65-0, tert-Butyl  
 alcohol, uses 77-92-9, Citric acid, uses 111-27-3, Hexanol, uses  
 111-87-5, Octanol, uses 139-13-9 139-33-3 150-39-0, HEDTA  
 557-34-6, Zinc acetate 1834-30-6, Iron(III) acetate 7447-39-4,  
 Copper(II) chloride, uses 7646-85-7, Zinc chloride, uses 7705-08-0,  
 Iron(III) chloride, uses 7720-78-7, Iron(II) sulfate 7773-01-5,  
 Manganese chloride 7779-90-0, Zinc phosphate 10043-01-3,  
 Aluminum sulfate 10043-52-4, Calcium chloride, uses 724446-93-9,  
 Precept 8160 724446-95-1, Precept 8140  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (microemulsion formulation for agrochemicals and pharmaceuticals)  
 IT 104206-82-8, Mesotrione  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (microemulsion formulation for agrochemicals and pharmaceuticals)  
 RN 104206-82-8 CAPLUS  
 CN 1,3-Cyclohexanedione, 2-[4-(methylsulfonyl)-2-nitrobenzoyl]- (CA INDEX  
 NAME)



L24 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2007:89713 CAPLUS Full-text  
 DOCUMENT NUMBER: 146:157661  
 TITLE: Granular turf-safe mesotrione compositions  
 INVENTOR(S): Baker, Robert D.

# Sabiha Qazi 11/000,700

PATENT ASSIGNEE(S): Oms Investments, Inc., USA  
 SOURCE: PCT Int. Appl., 52pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007011847	A2	20070125	WO 2006-US27620	20060718
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
US 20070021305	A1	20070125	US 2006-487774	20060717
AU 2006270098	A1	20070125	AU 2006-270098	20060718
CA 2615819	A1	20070125	CA 2006-2615819	20060718
EP 1909570	A2	20080416	EP 2006-787516	20060718
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS				
MX 200800772	A	20080306	MX 2008-772	20080116
PRIORITY APPLN. INFO.:			US 2005-700637P	P 20050719
			US 2006-487774	A 20060717
			WO 2006-US27620	W 20060718

ED Entered STN: 26 Jan 2007

AB Granular herbicidal compns. comprising mesotrione impregnated into or coated on the surface of a granular substrate material, such as a fertilizer granule and/or a solid inert carrier, control weeds in turfgrasses without causing damage to the grass. Thus, 0.61% Callisto (a 40% mesotrione formulation) was mixed with granular fertilizer in a rotating drum until the mesotrione was uniformly coated on and absorbed into the fertilizer granules. When the composition was applied at 0.33 lb/acre, with evaluation after 14 and 26 days, results showed that the composition is safe for the turfgrasses tested (perennial ryegrass, fine fescue, and tall fescue) and effective in causing initial injury and long-term control of dandelion, white clover, and crabgrass.

CC 5-3 (Agrochemical Bioregulators)

Section cross-reference(s): 19

IT Amino acids, biological studies

Aminoplasts

Phosphates, biological studies

Trace element nutrients

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)

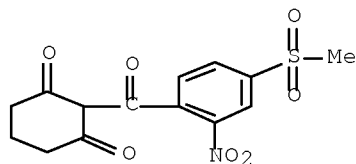
(herbicidal compns. comprising mesotrione impregnated into or coated on granular fertilizers for controlling weeds in turfgrasses)

IT 104206-82-8, Mesotrione

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(Callisto; herbicidal compns. comprising mesotrione impregnated into or coated on granular substrate for controlling weeds in turfgrasses)

IT 104206-82-8, Mesotrione  
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL  
 (Biological study); USES (Uses)  
 (Callisto; herbicidal compns. comprising mesotrione impregnated into or  
 coated on granular substrate for controlling weeds in turfgrasses)  
 RN 104206-82-8 CAPLUS  
 CN 1,3-Cyclohexanedione, 2-[4-(methylsulfonyl)-2-nitrobenzoyl]- (CA INDEX  
 NAME)



L24 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2004:964970 CAPLUS Full-text  
 DOCUMENT NUMBER: 141:407236  
 TITLE: Treatment of plants and plant propagation materials  
 with an antioxidant and pesticide to improve plant  
 health and/or yield  
 INVENTOR(S): Asrar, Jawed; Ding, Yiwei; Bourque, June E.; Sanders,  
 Ernest F.  
 PATENT ASSIGNEE(S): Monsanto Technology, LLC, USA  
 SOURCE: PCT Int. Appl., 79 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004095926	A2	20041111	WO 2004-US10720	20040407
WO 2004095926	A3	20050127		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
US 20040259732	A1	20041223	US 2004-832578	20040427
US 20080125319	A1	20080529	US 2008-11424	20080125
PRIORITY APPLN. INFO.:			US 2003-466104P	P 20030428
			US 2004-832578	A1 20040427

ED Entered STN: 12 Nov 2004

AB Methods and compns. are described for the treatment of plants and plant propagation materials with an antioxidant alone or in combination with a pesticide for improved germination rates. Plants that grow from treated plant



propagation materials, or plants that are treated directly, show improved stand d. or vigor, and/or improved yields.

- IC ICM A01N033-12
- ICS A01N031-16; A01N031-08; A01N037-44; A01C001-06; A01N043-10
- CC 5-3 (Agrochemical Bioregulators)
- IT Amines, biological studies
  - Glycoproteins
  - Lecithins
  - Lysophosphatidylcholines
  - Lysophosphatidylethanolamines
    - Phosphatidylcholines, biological studies
    - Phosphatidylethanolamines, biological studies
    - Phosphatidylserines
  - Phosphites
  - Proanthocyanidins
  - Proteoglycans, biological studies
  - Tocopherols
- RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
  - (mixture with pesticide; seed and plant treatment composition to improve germination, plant health and yield)
- IT 27314-13-2D, Norflurazon, mixture with antioxidant 27676-62-6D, 1,3,5-Tris(3,5-di-tert-butyl-4-hydroxybenzyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione, mixture with pesticide 28249-77-6D, Thiobencarb, mixture with antioxidant 29091-05-2D, Dinitramine, mixture with antioxidant 29091-21-2D, PrOdiamine, mixture with antioxidant 30560-19-1D, Acephate, mixture with antioxidant 33629-47-9D, Butralin, mixture with antioxidant 33693-04-8D, Terbumeton, mixture with antioxidant 34014-18-1D, Tebuthiuron, mixture with antioxidant 34123-59-6D, Isoproturon, mixture with antioxidant 34205-21-5D, Dimefuron, mixture with antioxidant 34256-82-1D, Acetochlor, mixture with antioxidant 34622-58-7D, Orbencarb, mixture with antioxidant 35256-85-0D, Tebutam, mixture with antioxidant 35554-44-0D, Imazalil, mixture with antioxidant 35597-43-4D, Bilanafos, mixture with antioxidant 36335-67-8D, Butamifos, mixture with antioxidant 36756-79-3D, Tiocarbazil, mixture with antioxidant 37294-28-3D, Xyloglucan, mixture with pesticide 38146-05-3D, mixture with pesticide 38953-85-4D, Isovitexin, mixture with pesticide 39515-40-7D, (Cyphenothrin;, mixture with antioxidant 39515-41-8D, (Fenpropathrin, mixture with antioxidant 39807-15-3D, Oxadiargyl, mixture with antioxidant 39985-63-2D, MK 616, mixture with antioxidant 40487-42-1D, Pendimethalin, mixture with antioxidant 41394-05-2D, Metamitron, mixture with antioxidant 42576-02-3D, ,Bifenox, mixture with antioxidant 42609-52-9D, Daimuron, mixture with antioxidant 42609-73-4D, Methyldymron, mixture with antioxidant 42874-03-3D, Oxyfluorfen, mixture with antioxidant 43222-48-6D, Difenzoquat methylsulfate, mixture with antioxidant 50563-36-5D, DIMethachlor, mixture with antioxidant 50594-66-6D, Acifluorfen, mixture with antioxidant 51218-45-2D, METolachlor, mixture with antioxidant 51218-49-6D, Pretilachlor, mixture with antioxidant 51235-04-2D, Hexazinone, mixture with antioxidant 51338-27-3D, Diclof opmethyl, mixture with antioxidant 51630-58-1D, Fenvalerate, mixture with antioxidant 52315-07-8D, Cypermethrin, mixture with antioxidant 52570-16-8D, Naproanilide, mixture with antioxidant 52645-53-1D, Permethrin, mixture with antioxidant 52888-80-9D, PRosulfocarb, mixture with antioxidant 53780-34-0D, MeFluidide, mixture with antioxidant 54406-48-3D, (Empenthrin, mixture with antioxidant 55179-31-2D, Bitertanol, mixture with antioxidant 55219-65-3D, TRIadimenol, mixture with antioxidant 55283-68-6D, Ethalfluralin, mixture with antioxidant 55290-64-7D, Dimethipin, mixture with antioxidant 55335-06-3D, Triclopyr, mixture with antioxidant 55512-33-9D, Pyridate, mixture with antioxidant 55634-91-8D, Alloxymid, mixture with antioxidant 55861-78-4D, Isouron, mixture with antioxidant 57646-30-7D, Furalaxyl, mixture with antioxidant

57837-19-1D, Metalaxyl, mixture with antioxidant 57966-95-7D, Cymoxanil, mixture with antioxidant 58011-68-0D, Pyrazolynate, mixture with antioxidant 58769-20-3D, Kadethrin, mixture with antioxidant 58810-48-3D, Ofurace, mixture with antioxidant 59669-26-0D, Thiodicarb, mixture with antioxidant 59682-52-9D, Fosamine, mixture with antioxidant 59756-60-4D, ,Fluridone, mixture with antioxidant 60207-90-1D, Propiconazole, mixture with antioxidant 60207-93-4D, ETaconazole, mixture with antioxidant 61213-25-0D, mixture with antioxidant 61432-55-1D, Dimepiperate, mixture with antioxidant 63843-89-0D, Tinuvin 144, mixture with pesticide 63935-38-6D, (Cycloprothrin, mixture with antioxidant 64249-01-0D, Anilofos, mixture with antioxidant 64902-72-3D, Chlorsulfuron, mixture with antioxidant 66063-05-6D, Pencycuron, mixture with antioxidant 66230-04-4D, (Esfenvalerate, mixture with antioxidant 66246-88-6D, Penconazole, mixture with antioxidant 67129-08-2D, Metazachlor, mixture with antioxidant 67306-00-7D, FEnpropidine, mixture with antioxidant 67375-30-8D, (Alphacypermethrin, mixture with antioxidant 67564-91-4D, FEnpropimorph, mixture with antioxidant 67747-09-5D, Prochloraz, mixture with antioxidant 68049-83-2D, Azafenidin, mixture with antioxidant 68085-85-8D, (Cyhalothrin, mixture with antioxidant 68359-37-5D, Cyfluthrin, mixture with antioxidant 68505-69-1D, Benfuresate, mixture with antioxidant 68694-11-1D, Triflumizole, mixture with antioxidant 69377-81-7D, Fluroxypyr, mixture with antioxidant 69770-45-2D, (Flumethrin, mixture with antioxidant 69806-34-4D, Haloxyfop, mixture with antioxidant 69806-50-4D, Fluazifopbutyl, mixture with antioxidant 70248-65-6D, Methionine sulfoxide reductase, mixture with pesticide 70630-17-0D, R-Metalaxyl, mixture with antioxidant 71239-70-8D, Cellotetraosylsitosterol, mixture with pesticide 71283-80-2D, mixture with antioxidant 71561-11-0D, Pyrazoxyfen, mixture with antioxidant 71626-11-4D, Benalaxyl, mixture with antioxidant 71697-59-1D, (Theta cypermethrin, mixture with antioxidant 72178-02-0D, ,Fomesafen, mixture with antioxidant 72459-58-6D, Triazoxide, mixture with antioxidant 72963-72-5D, Imiprothrin, mixture with antioxidant 73250-68-7D, Mefenacet, mixture with antioxidant 73989-17-0D, Avermectin, mixture with antioxidant 74051-80-2D, Sethoxydim, mixture with antioxidant 74070-46-5D, Aclonifen, mixture with antioxidant 74223-64-6D, Metsulfuronmethyl, mixture with antioxidant 74712-19-9D, Bromobutide, mixture with antioxidant 74738-17-3D, Fenpiclonil, mixture with antioxidant 76578-12-6D, Quizalofop, mixture with antioxidant 76674-21-0D, ,Flutriafol, mixture with antioxidant 77182-82-2D, Glufosinateammonium, mixture with antioxidant 77501-63-4D, Lactofen, mixture with antioxidant 77501-90-7D, Fluoroglycofenethyl, mixture with antioxidant 77732-09-3D, Oxadixyl, mixture with antioxidant 79241-46-6D, mixture with antioxidant 79277-27-3D, Thifensulfuronmethyl, mixture with antioxidant 79540-50-4D, Etobenzanid, mixture with antioxidant 79983-71-4D, Hexaconazole, mixture with antioxidant 81334-34-1D, Imazapyr, mixture with antioxidant 81335-37-7D, Imazaquin, mixture with antioxidant 81335-77-5D, Imazethapyr, mixture with antioxidant 81405-85-8D, Imazamethabenzmethyl, mixture with antioxidant 81412-43-3D, Tridemorph, mixture with antioxidant 81777-89-1D, Clomazone, mixture with antioxidant 82097-50-5D, Triasulfuron, mixture with antioxidant 82558-50-7D, Isoxaben, mixture with antioxidant 82657-04-3D, Bifenthrin, mixture with antioxidant 82692-44-2D, ,Benzofenap, mixture with antioxidant 83055-99-6D, Bensulfuronmethyl, mixture with antioxidant 83164-33-4D, Diflufenican, mixture with antioxidant 83657-24-3D, Diniconazole, mixture with antioxidant 84087-01-4D, Quinclorac, mixture with antioxidant 84496-56-0D, Clomeprop, mixture with antioxidant 85509-19-9D, Flusilazole, mixture with antioxidant 85785-20-2D, Esprocarb, mixture with antioxidant 86209-51-0D, Primisulfuronmethyl, mixture with antioxidant 86763-47-5D, Propisochlor, mixture with antioxidant 87392-12-9D, S-Metolachlor, mixture with antioxidant 87546-18-7D, Flumicloracpenty, mixture with antioxidant 87674-68-8D, Dimethenamid, mixture with antioxidant 87818-31-3D,

Cinmethylin, mixture with antioxidant 87820-88-0D, Tralkoxydim, mixture with antioxidant 87833-54-3D, mixture with pesticide 88283-41-4D, ,Pyrifenox, mixture with antioxidant 88671-89-0D, Myclobutanil, mixture with antioxidant 88678-67-5D, Pyributicarb, mixture with antioxidant 89624-19-1D, Irganox, mixture with pesticide 90134-59-1D, Flamprop-M, mixture with antioxidant 90524-93-9D, mixture with pesticide 90717-03-6D, Quinmerac, mixture with antioxidant 90982-32-4D, Chlorimuronethyl, mixture with antioxidant 93697-74-6D, Pyrazosulfuronethyl, mixture with antioxidant 94051-08-8D, Quizalof op-P, mixture with antioxidant 94125-34-5D, ,Prosulfuron, mixture with antioxidant 94361-06-5D, Cyproconazole, mixture with antioxidant 94593-91-6D, Cinosulfuron, mixture with antioxidant 96491-05-3D, Thenylchlor, mixture with antioxidant 96525-23-4D, Flurtamone, mixture with antioxidant 97780-06-8 97886-45-8D, Dithiopyr, mixture with antioxidant 98967-40-9D, Flumetsulam, mixture with antioxidant 99105-77-8D, Sulcotrione, mixture with antioxidant 99129-21-2D, Clethodim, mixture with antioxidant 99485-76-4D, Cumyluron, mixture with antioxidant 100784-20-1D, Halosulfuronmethyl, mixture with antioxidant 101007-06-1D, Acrinathrin, mixture with antioxidant 101018-70-6D, ,2-Methyl-4-(dimethylaminomethyl)-5-hydroxybenzimidazole, mixture with pesticide 101200-48-0D, Tribenuronmethyl, mixture with antioxidant 101205-02-1D, Cycloxydim, mixture with antioxidant 103361-09-7D, Flumioxazin, mixture with antioxidant 104040-78-0D, Flazasulfuron, mixture with antioxidant 104098-48-8D, IMazapic, mixture with antioxidant 104206-82-8D, MEsotrione, mixture with antioxidant 104459-82-7D, AKH-7088, mixture with antioxidant 105512-06-9D, Clodinafoppropargyl, mixture with antioxidant 107534-96-3D, Tebuconazole, mixture with antioxidant 108173-90-6D, Guazatine, mixture with antioxidant 109293-97-2D, Diflufenzopyr, mixture with antioxidant 110488-70-5D, Dimethomorph, mixture with antioxidant 110956-75-7D, Pentoxazone, mixture with antioxidant 111479-05-1D, PROpaquizafof, mixture with antioxidant 111578-32-6D, Metobenzuron, mixture with antioxidant 112143-82-5D, Triazamate, mixture with antioxidant 112226-61-6D, mixture with antioxidant 112281-77-3D, Tetraconazole, mixture with antioxidant 113614-08-7D, Beflubutamid, mixture with antioxidant 114311-32-9D, Imazamox, mixture with antioxidant 114369-43-6D, Fenbuconazole, mixture with antioxidant 116255-48-2D, Bromuconazole, mixture with antioxidant 117337-19-6D, Fluthiacetmethyl, mixture with antioxidant 117428-22-5D, ZEN90160, mixture with antioxidant 117718-60-2D, Thiazopyr, mixture with antioxidant 118134-30-8D, SPiroxamine, mixture with antioxidant 118712-89-3D, Transfluthrin, mixture with antioxidant 119168-77-3D, Tebufenpyrad, mixture with antioxidant 119446-68-3D, Difenoconazole, mixture with antioxidant 120068-37-3D, Fipronil, mixture with antioxidant 120162-55-2D, Azimsulfuron, mixture with antioxidant 120923-37-7D, Amidosulfuron, mixture with antioxidant 121552-61-2D, Cyprodinil, mixture with antioxidant 122008-85-9D, Cyhalof opbutyl, mixture with antioxidant 122548-33-8D, Imazosulfuron, mixture with antioxidant 122931-48-0D, Rimsulfuron, mixture with antioxidant 123343-16-8D, Pyriethiobacsodium, mixture with antioxidant 124495-18-7D, Quinoxifen, mixture with antioxidant 125116-23-6D, Metconazole, mixture with antioxidant 125306-83-4D, Cafenstrole, mixture with antioxidant 125401-92-5D, Bispyribacsodium, mixture with antioxidant 126535-15-7D, Triflusulfuronmethyl, mixture with antioxidant 126801-58-9D, Ethoxysulfuron, mixture with antioxidant 128639-02-1D, Carfentrazoneethyl, mixture with antioxidant 129630-19-9D, Pyraflufen-ethyl, mixture with antioxidant 129909-90-6D, Amicarbazone, mixture with antioxidant 131086-42-5D, ,HC-252, mixture with antioxidant 131341-86-1D, Fludioxonil, mixture with antioxidant 131475-57-5D, Triaziflam, mixture with antioxidant 131807-57-3D, ,Famoxadone, mixture with antioxidant 131860-33-8D, Azoxystrobin, mixture with antioxidant 131983-72-7D, Triticonazole, mixture with antioxidant 133220-30-1D, Indanofan, mixture with antioxidant 134605-64-4D, Butafenacil, mixture with antioxidant 135158-54-2, Acibenzolar-S-methyl 135410-20-7D,

Acetamiprid, mixture with antioxidant 136426-54-5D, Fluquinconazole, mixture with antioxidant 136849-15-5D, Cyclosulfamuron, mixture with antioxidant 137641-05-5D, Picolinafen, mixture with antioxidant 138164-12-2D, Butroxydim, mixture with antioxidant 139001-49-3D, BAS 625 H, mixture with antioxidant 139528-85-1D, Metosulam, mixture with antioxidant 141112-29-0D, Isoxaflutole, mixture with antioxidant 141776-32-1D, Sulfosulfuron, mixture with antioxidant 142459-58-3D, FLufenacet, mixture with antioxidant 142891-20-1D, Cinidonethyl, mixture with antioxidant 143390-89-0D, Kresoximmethyl, mixture with antioxidant 144550-36-7D, Iodosulfuronmethylsodium, mixture with antioxidant 144651-06-9D, Oxasulfuron, mixture with antioxidant 144740-54-5D, Flupyrsulfuronmethylsodium, mixture with antioxidant 145701-21-9D, Diclosulam, mixture with antioxidant 145701-23-1D, Florasulam, mixture with antioxidant 147150-35-4D, ,Cloransulammethyl, mixture with antioxidant 147411-69-6D, Pyriminobacmethyl, mixture with antioxidant

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)

(seed and plant treatment composition to improve germination, plant health and yield)

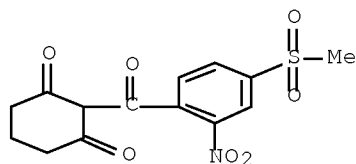
IT 104206-82-8D, MESotrione, mixture with antioxidant

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)

(seed and plant treatment composition to improve germination, plant health and yield)

RN 104206-82-8 CAPLUS

CN 1,3-Cyclohexanedione, 2-[4-(methylsulfonyl)-2-nitrobenzoyl]- (CA INDEX NAME)



L24 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:41187 CAPLUS Full-text

DOCUMENT NUMBER: 140:89300

TITLE: Synergistic herbicidal mixtures comprising benzoyl derivatives and pyrimidine derivatives

INVENTOR(S): O'Neal, William B.; Kibler, Elmar; Witschel, Matthias; Vantieghem, Herve R.

PATENT ASSIGNEE(S): Basf Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 68 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2004004463	A1	20040115	WO 2003-EP7321	20030708
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,			

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PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,  
 TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,  
 KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,  
 FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,  
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

CA 2490499	A1	20040115	CA 2003-2490499	20030708
AU 2003281252	A1	20040123	AU 2003-281252	20030708
EP 1521529	A1	20050413	EP 2003-740437	20030708
EP 1521529	B1	20070328		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

BR 2003012497	A	20050510	BR 2003-12497	20030708
CN 1668199	A	20050914	CN 2003-816286	20030708
JP 2005532382	T	20051027	JP 2004-518742	20030708
AT 357851	T	20070415	AT 2003-740437	20030708
ES 2285144	T3	20071116	ES 2003-740437	20030708
MX 2005PA00049	A	20050408	MX 2005-PA49	20050103
US 20060166828	A1	20060727	US 2005-519978	20050103

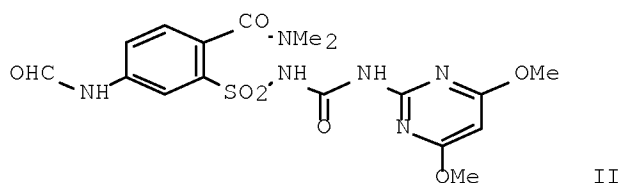
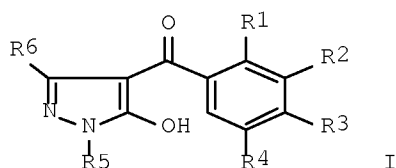
PRIORITY APPLN. INFO.:

US 2002-393740P	P	20020708
WO 2003-EP7321	W	20030708

OTHER SOURCE(S): MARPAT 140:89300

ED Entered STN: 18 Jan 2004

GI



AB A synergistic herbicidal mixture comprises: (a) at least one 3-heterocyclyl-substituted benzoyl derivative I (Markush included); and (b) a synergistically effective amount of the compound II, or one of its environmentally compatible salts; and, if desired, (c) at least one further herbicidal compound; and, if desired, (d) at least a safener.

ICM A01N047-36

ICS A01N043-80; A01N043-88; A01N043-70

CC 5-3 (Agrochemical Bioregulators)

IT Herbicides

(5-enolpyruvyl shikimate 3-phosphate synthase inhibitors; in synergistic herbicidal mixts. comprising benzoyl derivs. and pyrimidine derivs.)

IT 88678-67-5, Pyributicarb 90717-03-6, Quinmerac 90982-32-4,  
 Chlorimuron-ethyl 93697-74-6, Pyrazosulfuron-ethyl 94125-34-5,

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Prosulfuron 94593-91-6, Cinosulfuron 95480-33-4, Cloproxydim 96491-05-3, Thenylchlor 96525-23-4, Flurtamone 97780-06-8 97886-45-8, Dithiopyr 98967-40-9, Flumetsulam 99105-77-8, Sulcotrione 99129-21-2, Clethodim 99485-76-4, Cumyluron 99662-11-0, Nipyraclofen 100646-51-3 100784-20-1, Halosulfuron-methyl 101200-48-0, Tribenuron-methyl 101205-02-1, Cycloxydim 103112-36-3, Fenchlorazole 103361-09-7, Flumioxazin 104040-78-0, Flazasulfuron 104098-48-8, Imazapic 104206-82-8, Mesotrione 105512-06-9, Clodinafop-propargyl 109293-97-2, Diflufenzopyr 111479-05-1, Propaquizafop 111578-32-6, Metobenzuron 111991-09-4, Nicosulfuron 114311-32-9, Imazamox 117337-19-6, Fluthiacet-methyl 117718-60-2, Thiazopyr 119126-15-7, Flupoxam 119738-06-6 120162-55-2, Azimsulfuron 120890-70-2, Flupropacil 120923-37-7, Amidosulfuron 122008-85-9, Cyhalof op-butyl 122548-33-8, Imazosulfuron 122836-35-5, Sulfentrazone 122931-48-0, Rimsulfuron 123249-43-4, Thidiazimin 123342-93-8, Pyriithiobac 123343-16-8, Pyriithiobac-sodium 125306-83-4, Cafenstrole 125401-92-5, Bispyribac-sodium 126535-15-7, Triflusulfuron-methyl 126801-58-9, Ethoxysulfuron 128639-02-1, Carfentrazone-ethyl 129630-19-9, ET-751 131475-57-5, Triaziflam 134605-64-4, Butafenacil 135591-00-3, Mefenpyr 136191-64-5, KIH-6127 136849-15-5, Cyclosulfamuron 138164-12-2, Butroxydim 139001-49-3, Clefoxydim 139528-85-1, Metosulam 141112-06-3, Isoxachlortole 141112-29-0, Isoxaflutole 141776-32-1, Sulfosulfuron 142459-58-3, Fluthiamide 142469-14-5 142891-20-1, Cinidon-ethyl 145026-88-6, Flucarbazone 145701-23-1, Florasulam 149979-41-9, Tepraloxym 153197-14-9 163515-14-8, S-Dimethenamid 168088-61-7, Pyribenzoxim 174514-07-9, JV 485 185119-76-0, Iodosulfuron 188634-90-4, Ethoxyfen 188735-26-4, Fluorbentranil 192708-91-1, Ketospiradox 209866-92-2, Isoxadifen

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(in synergistic herbicidal mixts. comprising benzoyl derivs. and pyrimidine derivs.)

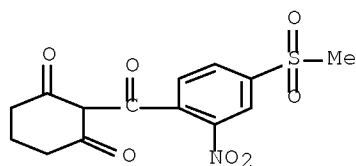
IT 104206-82-8, Mesotrione

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(in synergistic herbicidal mixts. comprising benzoyl derivs. and pyrimidine derivs.)

RN 104206-82-8 CAPLUS

CN 1,3-Cyclohexanedione, 2-[4-(methylsulfonyl)-2-nitrobenzoyl]- (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2003:1006677 CAPLUS Full-text

DOCUMENT NUMBER: 140:24500

TITLE: Cyclohexanedione herbicide composition comprising an

# Sabiha Qazi 11/000,700

INVENTOR(S): organic phosphate adjuvant  
Piper, Catherine Julia; Stock, David; Hall, Gavin  
John; Sutton, Peter Bernard  
PATENT ASSIGNEE(S): Syngenta Limited, UK  
SOURCE: PCT Int. Appl., 21 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003105589	A1	20031224	WO 2003-GB2428	20030604
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2484544	A1	20031224	CA 2003-2484544	20030604
AU 2003232935	A1	20031231	AU 2003-232935	20030604
BR 2003011717	A	20050301	BR 2003-11717	20030604
EP 1515608	A1	20050323	EP 2003-727734	20030604
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, SK				
CN 1658756	A	20050824	CN 2003-813521	20030604
JP 2005529174	T	20050929	JP 2004-512508	20030604
ZA 2004008510	A	20051013	ZA 2004-8510	20041020
US 20050096226	A1	20050505	US 2004-700	20041201
MX 2004PA12284	A	20050225	MX 2004-PA12284	20041207
US 20050202975	A1	20050915	US 2004-517873	20041213
PRIORITY APPLN. INFO.:			GB 2002-13638	A 20020613
			WO 2003-GB2428	W 20030604

OTHER SOURCE(S): MARPAT 140:24500

ED Entered STN: 26 Dec 2003

AB A herbicidal composition comprising a 2-(substituted benzoyl)-1.3-cyclohexanedione, preferably mesotrione, and an organic phosphate, phosphonate or phosphinate adjuvant at a concentration of <0.5% volume/volume when added to a spray tank as a tank mix additive or when co-formulated with a herbicide to produce a spray tank concentration of <0.5% volume/volume, is disclosed.

IC ICM A01N041-10

ICS A01N041-04; A01N035-06; A01N025-04; A01N025-00

CC 5-3 (Agrochemical Bioregulators)

ST cyclohexanedione herbicide compn org phosphate adjuvant

IT Herbicides

Pesticide formulations

(cyclohexanedione herbicide composition comprising an organic phosphate adjuvant)

IT 99105-77-8 104206-80-6 104206-82-8, Mesotrione 126070-60-8  
145665-36-7 634187-29-4

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)

(cyclohexanedione herbicide composition comprising an organic phosphate adjuvant)

IT 78-42-2, Tri(2-ethylhexyl) phosphate 126-63-6,  
Bis(2-ethylhexyl)-2-ethylhexyl phosphonate 126-73-8, Tributyl

phosphate, biological studies

RL: AGR (Agricultural use); MOA (Modifier or additive use); BIOL

(Biological study); USES (Uses)

(cyclohexanedione herbicide composition comprising an organic phosphate adjuvant)

IT 14265-44-2, Phosphate, uses 15477-76-6, Phosphonate

RL: MOA (Modifier or additive use); USES (Uses)

(organic; cyclohexanedione herbicide composition comprising an organic phosphate adjuvant)

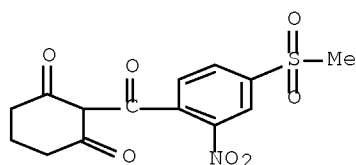
IT 104206-82-8, Mesotrione

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)

(cyclohexanedione herbicide composition comprising an organic phosphate adjuvant)

RN 104206-82-8 CAPLUS

CN 1,3-Cyclohexanedione, 2-[4-(methylsulfonyl)-2-nitrobenzoyl]- (CA INDEX NAME)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2003:1006676 CAPLUS Full-text

DOCUMENT NUMBER: 140:24499

TITLE: Safened herbicidal compositions based on chelated benzoylcyclohexanedione derivatives

INVENTOR(S): Piper, Catherine Julia; Stock, David; Hall, Gavin John; Sutton, Peter Bernard

PATENT ASSIGNEE(S): Syngenta Limited, UK

SOURCE: PCT Int. Appl., 20 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003105588	A1	20031224	WO 2003-GB2423	20030604
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2480898	A1	20031224	CA 2003-2480898	20030604



# Sabiha Qazi 11/000,700

AU 2003240070	A1	20031231	AU 2003-240070	20030604
BR 2003009414	A	20050201	BR 2003-9414	20030604
EP 1515609	A1	20050323	EP 2003-732684	20030604
EP 1515609	B1	20080423		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

AT 392811	T	20080515	AT 2003-732684	20030604
ES 2301801	T3	20080701	ES 2003-732684	20030604
MX 2004PA10865	A	20050125	MX 2004-PA10865	20041101
US 20050202972	A1	20050915	US 2004-517872	20041213

PRIORITY APPLN. INFO.:

GB 2002-13654	A	20020613
WO 2003-GB2423	W	20030604

OTHER SOURCE(S): MARPAT 140:24499

ED Entered STN: 26 Dec 2003

AB A novel herbicidal composition comprising a metal chelate of a 2-(substituted benzoyl)-1,3-cyclohexanedione (Markush given) and an organic phosphate, phosphonate, or phosphinate adjuvant shows improved activity with little or no increase in crop damage. Thus, mesotrione copper salt + 0.5% tri-Bu phosphate sprayed at 320 g/ha gave 97% control of Echinochloa crus-galli with no damage to two maize varieties.

IC ICM A01N041-10

ICS A01N035-06; A01N057-20

CC 5-3 (Agrochemical Bioregulators)

ST herbicide benzoylcyclohexanedione chelate phosphate phosphonate adjuvant; phosphinate safener benzoylcyclohexanedione chelate herbicide

IT Phosphates, biological studies

RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(mixts. with chelates of benzoylcyclohexanediones; safened herbicidal compns.)

IT Herbicides

(selective; metal chelates of benzoylcyclohexanediones safened with organic phosphates, phosphonates, or phosphinates)

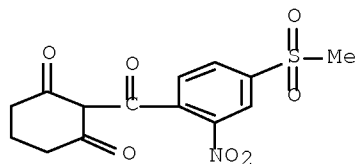
IT 78-42-2D, Tri(2-ethylhexyl) phosphate, mixture with mesotrione copper salt 78-46-6D, Dibutyl butyl phosphonate, mixture with mesotrione copper salt 126-63-6D, Bis(2-ethylhexyl)2-ethylhexyl phosphonate, mixture with mesotrione copper salt 126-73-8D, Tributyl phosphate, mixture with mesotrione copper salt 298-07-7D, Bis(2-ethylhexyl) hydrogen phosphate, mixture with mesotrione copper salt 7440-50-8D, Copper, mesotrione complexes 52894-02-7D, mixture with mesotrione copper salt RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(safened herbicidal composition)

IT 6303-21-5D, Phosphinic acid, derivs., mixts. with chelates of benzoylcyclohexanediones 13598-36-2D, Phosphonic acid, derivs., mixts. with chelates of benzoylcyclohexanediones 69629-50-1D, 2-Benzoyl-1,3-cyclohexanedione, derivs., metal chelates, mixts. with phosphates, phosphonates, and phosphinates 99105-77-8D, metal chelates, mixts. with phosphates, phosphonates, and phosphinates 104206-80-6D, metal chelates, mixts. with phosphates, phosphonates, and phosphinates 104206-82-8D, metal chelates, mixts. with phosphates, phosphonates, and phosphinates 126070-60-8D, metal chelates, mixts. with phosphates, phosphonates, and phosphinates 145665-36-7D, metal chelates, mixts. with phosphates, phosphonates, and phosphinates 634187-29-4D, metal chelates, mixts. with phosphates, phosphonates, and phosphinates RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(safened herbicidal compns.)

IT 104206-82-8D, metal chelates, mixts. with phosphates, phosphonates, and phosphinates  
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)  
 (safened herbicidal compns.)  
 RN 104206-82-8 CAPLUS  
 CN 1,3-Cyclohexanedione, 2-[4-(methylsulfonyl)-2-nitrobenzoyl]- (CA INDEX NAME)



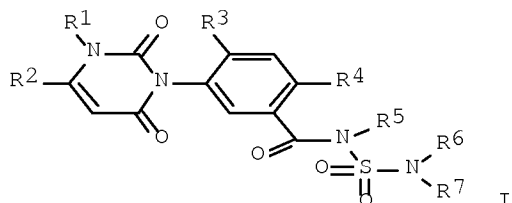
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2003:242096 CAPLUS Full-text  
 DOCUMENT NUMBER: 138:267186  
 TITLE: Herbicidal mixtures based on 3-phenyluracils  
 INVENTOR(S): Zagar, Cyrill; Sievernich, Bernd; Quakenbush, Laura; Evans, Richard R.; Landes, Max; Newsom, Larry J.; Ortlip, Charles L.; Witschel, Matthias; Landes, Andreas  
 PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany  
 SOURCE: PCT Int. Appl., 84 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003024221	A1	20030327	WO 2002-EP10136	20020910
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2460088	A1	20030327	CA 2002-2460088	20020910
AU 2002342671	A1	20030401	AU 2002-342671	20020910
EP 1429609	A1	20040623	EP 2002-779329	20020910
EP 1429609	B1	20070307		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
BR 2002012460	A	20041019	BR 2002-12460	20020910
CN 1555219	A	20041215	CN 2002-817977	20020910

Sabiha Qazi 11/000,700

JP 2005502715	T	20050127	JP 2003-528125	20020910
HU 2004002256	A2	20050329	HU 2004-2256	20020910
HU 2004002256	A3	20051128		
NZ 531486	A	20050826	NZ 2002-531486	20020910
AT 355747	T	20070315	AT 2002-779329	20020910
ES 2281550	T3	20071001	ES 2002-779329	20020910
TW 252078	B	20060401	TW 2002-91120878	20020912
MX 2004PA02087	A	20040607	MX 2004-PA2087	20040304
US 20040235665	A1	20041125	US 2004-488977	20040309
US 7375058	B2	20080520		
NO 2004001031	A	20040311	NO 2004-1031	20040311
IN 2004CN00546	A	20051223	IN 2004-CN546	20040312
ZA 2004002791	A	20050413	ZA 2004-2791	20040413
HR 2004000337	B1	20070930	HR 2004-337	20040413
PRIORITY APPLN. INFO.:			US 2001-318834P	P 20010914
			US 2001-333135P	P 20011127
			WO 2002-EP10136	W 20020910
OTHER SOURCE(S):	MARPAT 138:267186			
ED Entered STN:	28 Mar 2003			
GI				

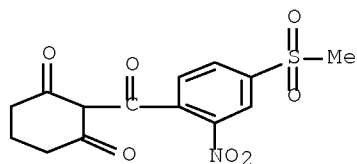


AB Herbicidically active compns., comprise: (A) at least one phenyluracil compound I (R1 = Me, or NH2; R2 = C1-C2-haloalkyl; R3 = H, or halo; R4 = halo, or cyano; R5 = H, cyano, C1-C6-alkyl, C1-C6-alkoxy, C1-C4-alkoxy-C1-C4-alkyl, C3-C7-cycloalkyl, C3-C6-alkenyl, C3-C6-alkynyl, or (un)substituted benzyl; R6, R7 = H, (un)substituted C1-C6-alkyl, C1-C6-alkoxy, C3-C6-alkenyl, C3-C6-alkynyl, C3-C7-cycloalkyl, C3-C7-cycloalkenyl, Ph or benzyl) and/or at least one of its agriculturally acceptable salts; and at least one further active compound, selected from (B) herbicides of classes (b1) to (b15): (b1) lipid biosynthesis inhibitors; (b2) acetolactate synthase inhibitors (ALS inhibitors); (b3) photosynthesis inhibitors; (b4) protoporphyrinogen-IX oxidase inhibitors; (b5) bleacher herbicides; (b6) enolpyruvyl shikimate 3-phosphate synthase inhibitors (EPSP inhibitors); (b7) glutamine synthetase inhibitors; (b8) 7,8-dihydropteroate synthase inhibitors (DHP inhibitors); (b9) mitosis inhibitors; (b10) inhibitors of the synthesis of very long chain fatty acids (VLCFA inhibitors); (b11) cellulose biosynthesis inhibitors; (b12) decoupler herbicides; (b13) auxin herbicides; (b14) auxin transport inhibitors; (b15) other herbicides. The herbicides in (b15) are selected from the group consisting of benzoylprop, flumetrol, flumetrol-M, bromobutide, chlorflurenol, cinmethylin, methyldymron, etobenzanid, fosamine, metam, pyributicarb, oxaziclonofone, dazomet, triaziflam and Me bromide. The compns. based on 3-phenyluracils I may also include safeners selected from benoxacor, cloquintocet, cyometrinil, dichlormid, dicyclonon, dietholate, fenclorazole, fenclorim, flurazole, fluxofenim, furilazole, isoxadifen, mefenpyr, mephenate, naphthalic anhydride, 2,2,5-trimethyl-3-(dichloroacetyl)-1,3-oxazolidine, 4-(dichloroacetyl)-1-oxa-4-azaspiro[4.5]decane and oxabetrinil, and agriculturally acceptable salts of the active compds.

IC ICM A01N043-54  
ICS A01N061-00  
CC 5-3 (Agrochemical Bioregulators)  
IT 74712-19-9D, Bromobutide, mixts. with 3-phenyluracil derivs.  
74782-23-3D, Oxabetrinil, mixts. with 3-phenyluracil derivs.  
76120-02-0D, Etnipromid, mixts. with 3-phenyluracil derivs. 76578-12-6D,  
Quizalofop, mixts. with 3-phenyluracil derivs. 76636-10-7D, Amibuzin,  
mixts. with 3-phenyluracil derivs. 77227-69-1D, Halosafen, mixts. with  
3-phenyluracil derivs. 77501-60-1D, Fluoroglycofen, mixts. with  
3-phenyluracil derivs. 77501-63-4D, Lactofen, mixts. with 3-phenyluracil  
derivs. 78168-93-1D, Ametridione, mixts. with 3-phenyluracil derivs.  
78863-62-4D, Flufenican, mixts. with 3-phenyluracil derivs. 79277-67-1D,  
Thifensulfuron, mixts. with 3-phenyluracil derivs. 79510-48-8D,  
Metsulfuron, mixts. with 3-phenyluracil derivs. 79540-50-4D,  
Etobenzanid, mixts. with 3-phenyluracil derivs. 80020-41-3D,  
Furyloxyfen, mixts. with 3-phenyluracil derivs. 81334-34-1D, Imazapyr,  
mixts. with 3-phenyluracil derivs. 81335-37-7D, Imazaquin, mixts. with  
3-phenyluracil derivs. 81335-77-5D, Imazethapyr, mixts. with  
3-phenyluracil derivs. 81777-89-1D, Clomazone, mixts. with  
3-phenyluracil derivs. 82097-50-5D, Triasulfuron, mixts. with  
3-phenyluracil derivs. 82558-50-7D, Isoxaben, mixts. with 3-phenyluracil  
derivs. 82692-44-2D, Benzofenap, mixts. with 3-phenyluracil derivs.  
83066-88-0D, Fluazifop-P, mixts. with 3-phenyluracil derivs.  
83164-33-4D, Diflufenican, mixts. with 3-phenyluracil derivs.  
84087-01-4D, Quinclorac, mixts. with 3-phenyluracil derivs. 84478-52-4D,  
Flumipropyn, mixts. with 3-phenyluracil derivs. 84496-56-0D, Clomeprop,  
mixts. with 3-phenyluracil derivs. 85785-20-2D, Esprocarb, mixts. with  
3-phenyluracil derivs. 86763-47-5D, Propisochlor, mixts. with  
3-phenyluracil derivs. 87310-56-3D, Butenachlor, mixts. with  
3-phenyluracil derivs. 87392-12-9D, S-Metolachlor, mixts. with  
3-phenyluracil derivs. 87547-04-4D, Flumiclorac, mixts. with  
3-phenyluracil derivs. 87674-68-8D, Dimethenamid, mixts. with  
3-phenyluracil derivs. 87757-18-4D, Isoxapyrifop, mixts. with  
3-phenyluracil derivs. 87818-31-3D, Cinmethylin, mixts. with  
3-phenyluracil derivs. 87820-88-0D, Tralkoxydim, mixts. with  
3-phenyluracil derivs. 88349-88-6D, Cloquintocet, mixts. with  
3-phenyluracil derivs. 88485-37-4D, Fluxofenim, mixts. with  
3-phenyluracil derivs. 88678-67-5D, Pyributicarb, mixts. with  
3-phenyluracil derivs. 90134-59-1D, Flamprop-M, mixts. with  
3-phenyluracil derivs. 90717-03-6D, Quinmerac, mixts. with  
3-phenyluracil derivs. 94051-08-8D, Quizalof op-P, mixts. with  
3-phenyluracil derivs. 94125-34-5D, Prosulfuron, mixts. with  
3-phenyluracil derivs. 94593-91-6D, Cinosulfuron, mixts. with  
3-phenyluracil derivs. 95480-33-4D, Cloproxydim, mixts. with  
3-phenyluracil derivs. 95617-09-7D, Fenoxaprop, mixts. with  
3-phenyluracil derivs. 95977-29-0D, Haloxyfop-P, mixts. with  
3-phenyluracil derivs. 96491-05-3D, Thenylchlor, mixts. with  
3-phenyluracil derivs. 96525-23-4D, Flurtamone, mixts. with  
3-phenyluracil derivs. 97886-45-8D, Dithiopyr, mixts. with  
3-phenyluracil derivs. 98389-04-9D, Pyrazosulfuron, mixts. with  
3-phenyluracil derivs. 98730-04-2D, Benoxacor, mixts. with  
3-phenyluracil derivs. 98967-40-9D, Flumetsulam, mixts. with  
3-phenyluracil derivs. 99105-77-8D, Sulcotrione, mixts. with  
3-phenyluracil derivs. 99129-21-2D, Clethodim, mixts. with  
3-phenyluracil derivs. 99283-00-8D, Chlorimuron, mixts. with  
3-phenyluracil derivs. 99283-01-9D, Bensulfuron, mixts. with  
3-phenyluracil derivs. 99662-11-0D, Nipyraclofen, mixts. with  
3-phenyluracil derivs. 100728-84-5D, Imazamethabenz, mixts. with  
3-phenyluracil derivs. 101205-02-1D, Cycloxydim, mixts. with  
3-phenyluracil derivs. 103112-36-3D, Fenchlorazole, mixts. with

3-phenyluracil derivs.	103361-09-7D, Flumioxazin, mixts. with
3-phenyluracil derivs.	104040-78-0D, Flazasulfuron, mixts. with
3-phenyluracil derivs.	104098-48-8D, Imazapic, mixts. with
3-phenyluracil derivs.	<del>104206-82-8D</del> , Mesotrione, mixts. with
3-phenyluracil derivs.	106040-48-6D, Tribenuron, mixts. with
3-phenyluracil derivs.	106700-29-2D, Pethoxamid, mixts. with
3-phenyluracil derivs.	109293-97-2D, Diflufenzopyr, mixts. with
3-phenyluracil derivs.	110956-75-7D, Pentoxazone, mixts. with
3-phenyluracil derivs.	111353-84-5D, Ethametsulfuron, mixts. with
3-phenyluracil derivs.	111479-05-1D, Propaquizafop, mixts. with
3-phenyluracil derivs.	111578-32-6D, Metobenzuron, mixts. with
3-phenyluracil derivs.	111991-09-4D, Nicosulfuron, mixts. with
3-phenyluracil derivs.	113036-87-6D, Primisulfuron, mixts. with
3-phenyluracil derivs.	113158-40-0D, Fenoxaprop-p, mixts. with
3-phenyluracil derivs.	113614-08-7D, Beflubutamid, mixts. with
3-phenyluracil derivs.	114311-32-9D, Imazamox, mixts. with
3-phenyluracil derivs.	114420-56-3D, Clodinafop, mixts. with
3-phenyluracil derivs.	117718-60-2D, Thiazopyr, mixts. with
3-phenyluracil derivs.	119126-15-7D, Flupoxam, mixts. with
3-phenyluracil derivs.	120162-55-2D, Azimsulfuron, mixts. with
3-phenyluracil derivs.	120890-70-2D, Flupropacil, mixts. with
3-phenyluracil derivs.	121776-33-8D, Furilazole, mixts. with
3-phenyluracil derivs.	122008-78-0D, Cyhalofop, mixts. with
3-phenyluracil derivs.	122548-33-8D, Imazosulfuron, mixts. with
3-phenyluracil derivs.	122836-35-5D, Sulfentrazone, mixts. with
3-phenyluracil derivs.	122931-48-0D, Rimsulfuron, mixts. with
3-phenyluracil derivs.	123249-43-4D, Thidiazimin, mixts. with
3-phenyluracil derivs.	123342-93-8D, Pyriithiobac, mixts. with
3-phenyluracil derivs.	125306-83-4D, Cafenstrole, mixts. with
3-phenyluracil derivs.	125401-75-4D, Bispyribac, mixts. with
3-phenyluracil derivs.	126801-58-9D, Ethoxysulfuron, mixts. with
3-phenyluracil derivs.	128621-72-7D, Carfentrazone, mixts. with
3-phenyluracil derivs.	129630-17-7D, Pyraflufen, mixts. with
3-phenyluracil derivs.	129909-90-6D, Amicarbazone, mixts. with
3-phenyluracil derivs.	131475-57-5D, Triaziflam, mixts. with
3-phenyluracil derivs.	133220-30-1D, Indanofan, mixts. with
3-phenyluracil derivs.	134605-64-4D, Butafenacil, mixts. with
3-phenyluracil derivs.	135186-78-6D, Pyriftalid, mixts. with
3-phenyluracil derivs.	135397-30-7D, Halosulfuron, mixts. with
3-phenyluracil derivs.	135591-00-3D, Mefenpyr, mixts. with
3-phenyluracil derivs.	135990-29-3D, Triflusulfuron, mixts. with
3-phenyluracil derivs.	136191-56-5D, Pyriminobac, mixts. with
3-phenyluracil derivs.	136849-15-5D, Cyclosulfamuron, mixts. with
3-phenyluracil derivs.	137641-05-5D, Picolinafen, mixts. with
3-phenyluracil derivs.	138164-12-2D, Butroxydim, mixts. with
3-phenyluracil derivs.	139001-49-3D, Profoxydim, mixts. with
3-phenyluracil derivs.	139528-85-1D, Metosulam, mixts. with
3-phenyluracil derivs.	141112-06-3D, Isoxachlortole, mixts. with
3-phenyluracil derivs.	141112-29-0D, Isoxaflutole, mixts. with
3-phenyluracil derivs.	141776-32-1D, Sulfosulfuron, mixts. with
3-phenyluracil derivs.	142459-58-3D, Flufenacet, mixts. with
3-phenyluracil derivs.	142469-14-5D, Tritosulfuron, mixts. with
3-phenyluracil derivs.	142891-20-1D, Cinidon-ethyl, mixts. with
3-phenyluracil derivs.	144651-06-9D, Oxasulfuron, mixts. with
3-phenyluracil derivs.	145026-81-9D, Propoxycarbazone, mixts. with
3-phenyluracil derivs.	145026-88-6D, Flucarbazone, mixts. with
3-phenyluracil derivs.	145099-21-4D, Trifloxysulfuron, mixts. with
3-phenyluracil derivs.	145701-21-9D, Diclosulam, mixts. with
3-phenyluracil derivs.	145701-23-1D, Florasulam, mixts. with
3-phenyluracil derivs.	149253-65-6D, Fluthiacet, mixts. with

3-phenyluracil derivs. 149979-41-9D, Tepraloxymid, mixts. with  
3-phenyluracil derivs. 150315-10-9D, Flupyrsulphuron, mixts. with  
3-phenyluracil derivs. 153197-14-9D, Oxaziclonofone, mixts. with  
3-phenyluracil derivs. 156963-66-5D, Benzobicyclon, mixts. with  
3-phenyluracil derivs. 158237-07-1D, Fentrazamide, mixts. with  
3-phenyluracil derivs. 158353-15-2D, Pyraclozil, mixts. with  
3-phenyluracil derivs. 158755-95-4D, Benzfendazole, mixts. with  
3-phenyluracil derivs. 159518-97-5D, Cloransulam, mixts. with  
3-phenyluracil derivs. 163515-14-8D, Dimethenamid-P, mixts. with  
3-phenyluracil derivs. 168088-61-7D, Pyribenzoxim, mixts. with  
3-phenyluracil derivs. 173159-57-4D, Foramsulphuron, mixts. with  
3-phenyluracil derivs. 174514-07-9D, Fluazolate, mixts. with  
3-phenyluracil derivs. 180608-33-7D, mixts. with 3-phenyluracil derivs.  
185119-76-0D, Iodosulphuron, mixts. with 3-phenyluracil derivs.  
188490-07-5D, Flufenpyr, mixts. with 3-phenyluracil derivs.  
188634-90-4D, Ethoxyfen, mixts. with 3-phenyluracil derivs.  
190314-43-3D, Profluazol, mixts. with 3-phenyluracil derivs.  
198272-55-8D, mixts. with 3-phenyluracil derivs. 198412-87-2D, mixts.  
with 3-phenyluracil derivs. 209866-92-2D, Isoxadifen, mixts. with  
3-phenyluracil derivs. 210576-74-2D, mixts. with 3-phenyluracil derivs.  
210631-68-8D, mixts. with 3-phenyluracil derivs. 219714-96-2D,  
Penoxsulam, mixts. with 3-phenyluracil derivs. 256412-89-2D, Metamifop,  
mixts. with 3-phenyluracil derivs. 400852-66-6D, Mesosulphuron, mixts.  
with 3-phenyluracil derivs. 400852-67-7D, Diethamquat, mixts. with  
3-phenyluracil derivs. 503188-42-9 503188-43-0 503188-44-1  
503188-45-2 503188-46-3 503188-47-4 503188-48-5 503188-49-6  
503188-50-9 503188-51-0 503188-52-1 503188-53-2 503188-54-3  
503188-55-4 503188-57-6 503188-58-7 503188-59-8 503188-60-1  
503188-61-2 503188-62-3 503188-63-4 503188-64-5 503188-65-6  
503188-66-7 503188-67-8 503188-68-9 503188-69-0 503188-70-3  
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL  
(Biological study); USES (Uses)  
(herbicidal compns. containing)  
IT 9023-70-5D, Glutamine synthetase, mixts. with 3-phenyluracil derivs.  
9055-61-2D, 7,8-Dihydropteroate synthase, mixts. with 3-phenyluracil  
derivs. 9068-73-9D, 5-Enolpyruvyl shikimate 3-phosphate  
synthase, mixts. with 3-phenyluracil derivs. 53986-32-6D,  
Protoporphyrinogen-IX oxidase, mixts. with 3-phenyluracil derivs.  
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL  
(Biological study); USES (Uses)  
(inhibitors; herbicidal mixts. containing)  
IT 104206-82-8D, Mesotrione, mixts. with 3-phenyluracil derivs.  
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL  
(Biological study); USES (Uses)  
(herbicidal compns. containing)  
RN 104206-82-8 CAPLUS  
CN 1,3-Cyclohexanedione, 2-[4-(methylsulfonyl)-2-nitrobenzoyl]- (CA INDEX  
NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 2001:832997 CAPLUS Full-text  
DOCUMENT NUMBER: 135:354181  
TITLE: Controlled-release combination of herbicides with  
polymers by way of hydrogen bridges  
INVENTOR(S): Kocur, Jean; Frisch, Gerhard; Wuertz, Jochen; Bickers,  
Udo; Hacker, Erwin; Huff, Hans Philipp; Schnabel,  
Gerhard  
PATENT ASSIGNEE(S): Aventis CropScience GmbH, Germany  
SOURCE: PCT Int. Appl., 43 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001084927	A1	20011115	WO 2001-EP5097	20010505
W: AE, AG, AL, AM, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CN, CO, CR, CU, CZ, DM, DZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TT, UA, US, UZ, VN, YU, ZA RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 10022990	A1	20011122	DE 2000-10022990	20000511
CA 2408219	A1	20030115	CA 2001-2408219	20010505
EP 1283671	A1	20030219	EP 2001-940406	20010505
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001010736	A	20030311	BR 2001-10736	20010505
JP 2003532651	T	20031105	JP 2001-581603	20010505
US 20020042345	A1	20020411	US 2001-853314	20010510
MX 2002PA11049	A	20040819	MX 2002-PA11049	20021108
US 20050054532	A1	20050310	US 2004-942235	20040916
PRIORITY APPLN. INFO.:			DE 2000-10022990	A 20000511
			WO 2001-EP5097	W 20010505
			US 2001-853134	A1 20010509

OTHER SOURCE(S): MARPAT 135:354181

ED Entered STN: 16 Nov 2001

AB The invention relates to the combination of a herbicide from the group of the  
sulfonylureas, with a polymer, while forming hydrogen bridges, for the  
controlled release of the active substance. The polymer and the active  
substance have functional groups that facilitate the formation of hydrogen  
bridges. The preferred polymers are poly(vinyl alc.) or partially-saponified  
poly(vinyl acetate).

IC ICM A01N025-10

ICS A01N047-36; A01N043-76; A01N043-56

CC 5-4 (Agrochemical Bioregulators)

IT 85-00-7, Diquat 93-65-2, CMPP 94-74-6, MCPA 94-75-7, 2,4-D,  
biological studies 94-82-6, 2,4-DB 120-36-5, 2,4-DP 1071-83-6,  
Glyphosate 1689-83-4, Ioxynil 1689-84-5, Bromoxynil 4685-14-7,  
Paraquat 40843-25-2, Diclofop 51276-47-2, Glufosinate 66441-23-4,  
Fenoxaprop-ethyl 69335-91-7, Fluazifop 74051-80-2, Sethoxydim  
87820-88-0, Tralkoxydim 99105-77-8, Sulcotrione 99129-21-2, Clethodim  
104206-82-8, Mesotrione 105512-06-9, Clodinafop-propargyl

126801-58-9, Ethoxysulfuron 144550-36-7, Iodosulfuron-methyl sodium salt  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)

(controlled-release combination of herbicides with polymers by way of  
 hydrogen bridges)

IT 9002-89-5, Poly(vinyl alcohol) 9003-39-8, PVP 11138-66-2D, Xanthan,  
 derivs. 25014-12-4, Poly(meth)acrylamide 25087-26-7, Poly(meth)acrylic  
 acid 25191-25-7, Polyvinyl sulfate 25322-68-3, Polyethylene glycol  
 25322-69-4, Polypropylene glycol 29690-74-2, Polyvinyl phosphate  
 37353-59-6, Hydroxymethylcellulose 50851-57-5 138919-50-3

RL: MOA (Modifier or additive use); USES (Uses)

(controlled-release combination of herbicides with polymers by way of  
 hydrogen bridges)

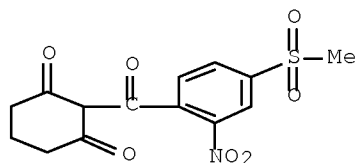
IT 104206-82-8, Mesotrione

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)

(controlled-release combination of herbicides with polymers by way of  
 hydrogen bridges)

RN 104206-82-8 CAPLUS

CN 1,3-Cyclohexanedione, 2-[4-(methylsulfonyl)-2-nitrobenzoyl]- (CA INDEX  
 NAME)



REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d .ca hitstr 126 1-2

L26 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2006:292495 CAPLUS Full-text

DOCUMENT NUMBER: 144:306893

TITLE: Pesticidal compositions containing phosphoric acid  
 ester adjuvants

INVENTOR(S): Hess, Joachim; Zerrer, Ralf; Sowa, Christian

PATENT ASSIGNEE(S): Clariant G.m.b.H., Germany

SOURCE: Ger. Offen., 11 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102004047092	A1	20060330	DE 2004-102004047092	20040929
CA 2581183	A1	20060406	CA 2005-2581183	20050922
WO 2006034817	A2	20060406	WO 2005-EP10255	20050922
WO 2006034817	A3	20060713		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,  
 CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE,



# Sabiha Qazi 11/000,700

GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

EP 1799036 A2 20070627 EP 2005-792050 20050922

R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR

CN 101076246 A 20071121 CN 2005-80032756 20050922

JP 2008514664 T 20080508 JP 2007-533920 20050922

BR 2005015958 A 20080812 BR 2005-15958 20050922

MX 200703730 A 20070423 MX 2007-3730 20070328

KR 2007057879 A 20070607 KR 2007-707076 20070328

US 20070275854 A1 20071129 US 2007-664329 20070724

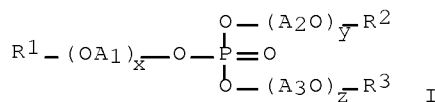
PRIORITY APPLN. INFO.: DE 2004-102004047092A 20040929

WO 2005-EP10255 W 20050922

OTHER SOURCE(S): MARPAT 144:306893

ED Entered STN: 30 Mar 2006

GI



- AB Compns. are described, containing: (a) pesticides or phytohormones, and (b) alkyl or alkylaryl phosphoric acid ester adjuvants, the esters comprising  $\geq 1$  branched alkyl groups. The phosphoric acid esters are I (R1 = C6-30 alkyl or alkenyl or alkylphenyl; R2, R3 = H, alkali metal, alkaline-earth metal, etc.; A1, A2, A3 = alkylene; x, y, z = 10, 1-30). The adjuvants enhance the activity of the active ingredient.
- CC 5-4 (Agrochemical Bioregulators)
- IT 50-31-7, 2,3,6-TBA 61-82-5, Amitrol 75-99-0, Dalapon 76-03-9, TCA, biological studies 79-11-8, Chloroacetic acid, biological studies 85-00-7, Diquat 85-34-7, Fenac 93-65-2, Mecoprop 94-74-6, MCPA 94-75-7, 2,4-D, biological studies 94-81-5, MCPB 94-82-6, 2,4-DB 107-02-8, Acrolein, biological studies 112-05-0, Nonanoic acid 120-36-5, Dichloroprop 122-34-9, Simazin 124-58-3 132-66-1, Naptalam 133-90-4, Chloramben 139-40-2, Propazin 145-73-3, Endothall 314-40-9, Bromacil 330-54-1, Diuron 330-55-2, Linuron 555-37-3, Neburon 756-09-2, Flupropanate 834-12-8, Ametryn 1014-69-3, Desmetryn 1014-70-6, Simetryn 1071-83-6, Glyphosate 1194-65-6 1610-18-0, Prometon 1689-83-4, Ioxynil 1689-84-5, Bromoxynil 1702-17-6, Clopyralid 1836-77-7, Chlornitrofen 1861-32-1, Chlorthal-dimethyl 1912-24-9, Atrazin 1912-26-1, Triethazine 1918-00-9, Dicamba 1918-02-1, Picloram 1918-16-7, Propachlor 1982-49-6, Siduron 2164-08-1, Lenacil 2164-17-2, Fluometuron 3337-71-1, Asulam 3740-92-9, Fenclorim 3813-05-6, Benazolin 4685-14-7, Paraquat 5329-14-6, Sulfaminic acid 7287-19-6, Prometryn 13181-17-4, Bromofenoxim 13360-45-7 13684-56-5, Desmedipham

Sabiha Qazi 11/000,700

13684-63-4, Phenmedipham 15545-48-9, Chlorotoluron 15972-60-8, Metachlor 19044-88-3, Oryzalin 19666-30-9, Oxadiazon 21725-46-2, Cyanazin 22936-75-0, Dimethametryn 23184-66-9, Butachlor 23950-58-5, Propyzamide 25057-89-0, Bentazon 27314-13-2, Norflurazon 29091-05-2, Dinitramine 29091-21-2, Prodiamine 32861-85-1, Chlomethoxyfen 33693-04-8, Terbumeton 34123-59-6, Isoproturon 34205-21-5, Dimefuron 34256-82-1, Acetochlor 35597-43-4, Bialaphos 40843-25-2, Diclofop 42576-02-3, Bifenox 42609-52-9 42874-03-3, Oxyfluorfen 49866-87-7, Difenzoquat 50563-36-5, Dimethachlor 50594-66-6, Acifluorfen 51218-49-6, Pretilachlor 51276-47-2, Glufosinate 52570-16-8, Naproanilide 58011-68-0, Pyrazolynate 58667-63-3, Flamprop 59682-52-9, Fosamine 59756-60-4, Fluridone 66441-23-4, Fenoxapropethyl 69335-91-7, Fluazifop 69806-34-4, Haloxyfop 72178-02-0, Fomesafen 73250-68-7, Mefenacet 74070-46-5, Aclonifen 74712-19-9, Bromobutide 76578-12-6, Quizalofop 76578-14-8, Quizalof opethyl 77501-60-1, Fluoroglycofen 77501-63-4, Lactofen 79241-46-6 81334-34-1, Imazapyr 81335-37-7, Imazaquin 81335-77-5, Imazethapyr 82558-50-7, Isoxaben 82692-44-2, Benzofenap 83055-99-6, Bensulfuronmethyl 83164-33-4, Diflufenican 84087-01-4, Quinclorac 84496-56-0, Clomeprop 86763-47-5, Propisochlor 87547-04-4, ,Flumiclorac 87674-68-8, Dimethenamid 87757-18-4, Isoxapyrifop 87820-88-0, Tralkoxydim 88678-67-5, Pyributicarb 90982-32-4, Chlorimuronethyl 93697-74-6, Pyrazosulfuronethyl 95617-09-7, Fenoxaprop 96491-05-3, Thenylchlor 96525-23-4, Flurtamone 97780-06-8, Ethametsulfuronmethyl 98967-40-9, Flumetsulam 100728-84-5, Imazamethabenz 101917-66-2, Imazethapyr ammonium 103361-09-7, Flumioxazin 104040-78-0, Flazasulfuron 104098-48-8, Imazapic 104206-82-8, Mesotrione 105512-06-9, Clodinafop-propargyl 111578-32-6, Metobenzuron 114311-32-9, Imazamox 114420-56-3, Clodinafop 117718-60-2, Thiazopyr 119126-15-7, Flupoxam 122931-48-0, Rimsulfuron 134605-64-4, Butafenacil

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(pesticidal compns. containing phosphoric acid ester adjuvants)

IT 7664-38-2D, Phosphoric acid, esters 73038-25-2 854019-73-1

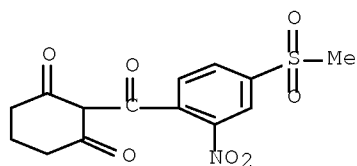
RL: MOA (Modifier or additive use); USES (Uses)  
(pesticidal compns. containing phosphoric acid ester adjuvants)

IT 104206-82-8, Mesotrione

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(pesticidal compns. containing phosphoric acid ester adjuvants)

RN 104206-82-8 CAPLUS

CN 1,3-Cyclohexanedione, 2-[4-(methylsulfonyl)-2-nitrobenzoyl]- (CA INDEX NAME)

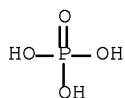


IT 7664-38-2D, Phosphoric acid, esters

RL: MOA (Modifier or additive use); USES (Uses)  
(pesticidal compns. containing phosphoric acid ester adjuvants)

RN 7664-38-2 CAPLUS

CN Phosphoric acid (CA INDEX NAME)



L26 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2002:637453 CAPLUS Full-text  
 DOCUMENT NUMBER: 137:151335  
 TITLE: Suspending system for herbicidal aqueous suspension  
 concentrates comprising silica and an  
 alkylpolyvinylpyrrolidone  
 INVENTOR(S): Griffiths, Andrew John; Barnett, Sarah Elizabeth  
 PATENT ASSIGNEE(S): Syngenta Limited, UK  
 SOURCE: PCT Int. Appl., 15 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002063956	A1	20020822	WO 2002-GB468	20020204
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2002228215	A1	20020828	AU 2002-228215	20020204
HU 2003002101	A2	20030929	HU 2003-2101	20020204
HU 2003002101	A3	20051128		
EP 1361791	A1	20031119	EP 2002-710164	20020204
EP 1361791	B1	20060802		
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
JP 2004522760	T	20040729	JP 2002-563767	20020204
JP 4015950	B2	20071128		
AT 334588	T	20060815	AT 2002-710164	20020204
ES 2271226	T3	20070416	ES 2002-710164	20020204
BG 107911	A	20040831	BG 2003-107911	20030613
US 20040082481	A1	20040429	US 2003-467744	20030812
NO 2003003615	A	20030814	NO 2003-3615	20030814
PRIORITY APPLN. INFO.:			GB 2001-3761	A 20010215
			WO 2002-GB468	W 20020204

ED Entered STN: 23 Aug 2002

AB An aqueous suspension concentrate formulation of insol. or partially soluble agrochem. active ingredient, such as herbicides mesotrione or sulcotrione, includes a suspending system comprising silica and an alkylpolyvinylpyrrolidone.

IC ICM A01N025-04

CC 5-3 (Agrochemical Bioregulators)

IT 111-87-5, Octan-1-ol, uses 7664-38-2, Phosphoric acid, uses 9005-64-5, Tween 20 106392-12-5, Pluronic PE10500 189200-54-2,

Antifoam MSA

RL: MOA (Modifier or additive use); USES (Uses)

(adjuvant component for herbicidal suspension concs. comprising silica and alkylpolyvinylpyrrolidone as suspending system)

IT 99105-77-8, Sulcotrione 104206-82-8, Mesotrione

RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)

(suspending system comprising silica and alkylpolyvinylpyrrolidone for aqueous suspension concs. of)

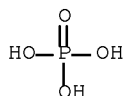
IT 7664-38-2, Phosphoric acid, uses

RL: MOA (Modifier or additive use); USES (Uses)

(adjuvant component for herbicidal suspension concs. comprising silica and alkylpolyvinylpyrrolidone as suspending system)

RN 7664-38-2 CAPLUS

CN Phosphoric acid (CA INDEX NAME)



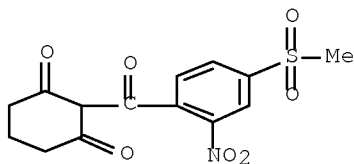
IT 104206-82-8, Mesotrione

RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)

(suspending system comprising silica and alkylpolyvinylpyrrolidone for aqueous suspension concs. of)

RN 104206-82-8 CAPLUS

CN 1,3-Cyclohexanedione, 2-[4-(methylsulfonyl)-2-nitrobenzoyl]- (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his nofile

(FILE 'REGISTRY' ENTERED AT 13:59:44 ON 11 SEP 2008)

DEL HIS Y  
ACT QAZI/A

L1 STR  
L2 165 SEA FAM FUL L1

ACT PHOS/A

L3 ( 6)SEA ABB=ON PLU=ON (PHOSPHATE/CN OR "PHOSPHATE (32PO4)"/CN OR "PHOSPHATE (H2PO4-)/CN OR "PHOSPHATE (H2PO41-)/CN OR "PHOSPHATE (HPO42-)/CN OR "PHOSPHATE (P2O74-)/CN OR "PHOSPHAT

Sabiha Qazi 11/000,700

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      E (P40123-)/CN)
L4  (      2) SEA ABB=ON  PLU=ON  (PHOSPHONATE/CN OR "PHOSPHONATE (H2PO31-)/
      CN OR "PHOSPHONATE (HPO32-)/CN)
L5  (      1) SEA ABB=ON  PLU=ON  (PHOSPHINATE/CN OR "PHOSPHINATE (H2PO21-)/
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L6      9 SEA ABB=ON  PLU=ON  (L3 OR L4 OR L5)
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      E PHOSPHORIC ACID/CN
L7      1 SEA ABB=ON  PLU=ON  "PHOSPHORIC ACID"/CN
      D SCAN

```

FILE 'CAPLUS' ENTERED AT 14:00:26 ON 11 SEP 2008

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L8      333 SEA ABB=ON  PLU=ON  L2
L9      125003 SEA ABB=ON  PLU=ON  L6 OR L7
L10     76200 SEA ABB=ON  PLU=ON  L7
L11     77136 SEA ABB=ON  PLU=ON  HERBICIDE?/OBI
L12     135 SEA ABB=ON  PLU=ON  L10 AND L11
L13     24654 SEA ABB=ON  PLU=ON  ADJUVANT?/OBI
L14      9 SEA ABB=ON  PLU=ON  L12 AND L13
L15     3 SEA ABB=ON  PLU=ON  L8 AND L10

```

FILE 'REGISTRY' ENTERED AT 14:02:18 ON 11 SEP 2008

FILE 'CAPLUS' ENTERED AT 14:02:31 ON 11 SEP 2008

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L*** DEL      3 S L8 AND L10
      D SCAN TI
L16      4 SEA ABB=ON  PLU=ON  L9 AND L8
      D SCAN TI
L17     246 SEA ABB=ON  PLU=ON  L11 AND L9
L18     11 SEA ABB=ON  PLU=ON  L17 AND L13
L19     13 SEA ABB=ON  PLU=ON  L14 OR L15 OR L16 OR L18
L20     591961 SEA ABB=ON  PLU=ON  PHOSPHAT?/OBI
L21     11 SEA ABB=ON  PLU=ON  L8 AND L20
L22     22 SEA ABB=ON  PLU=ON  L21 OR L19
L23      2 SEA ABB=ON  PLU=ON  L21 AND L13
L24     11 SEA ABB=ON  PLU=ON  L23 OR L21

```

FILE 'REGISTRY' ENTERED AT 14:05:47 ON 11 SEP 2008

D QUE STAT L2

FILE 'REGISTRY' ENTERED AT 14:06:08 ON 11 SEP 2008

D QUE STAT L2  
 D QUE L14  
 D QUE L6  
 D RN CN L6 1-9  
 D QUE L10  
 D QUE L7  
 D L7

FILE 'CAPLUS' ENTERED AT 14:07:05 ON 11 SEP 2008

```

      D QUE NOS L24
      D .CA HITSTR L24 1-11
L25     4 SEA ABB=ON  PLU=ON  L8 AND (L9 OR L10)
L26     2 SEA ABB=ON  PLU=ON  L25 NOT L24
      D SCAN TI
      D QUE NOS L26
      D .CA HITSTR L26 1-2

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